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I.	FOOD & AGRICU	JLTURAL PRODUCTS			
1.	Bakery And Confe	ctionery Products			
А.	Bakery Products				
a.	Biscuits	Moisture	IS 1011: 2002, DGHS Manual 3, Page. 35 (2005)	0.5 % to 1	10 %
		Total Ash	IS 1011: 2002, DGHS Manual 3, Page. 36 (2005)	0.1 % to :	5 %
		Acid Insoluble Ash, In Dil HCl On Dry Basis	IS 1011: 2002, DGHS Manual 3, Page. 36 (2005)	0.001 % t	o 0.5 %
		Acidity Of Extracted Fat, As Oleic Acid	IS 1011: 2002, DGHS Manual 3, Page. 38 (2005)	0.1 % to :	5.0 %
		Dietary Fibre (Oligosaccharide)	AOAC (19 th Edition) 991.43: 2012	1 % to 15	%
b.	Bread Thin Crust Pizza Base	Moisture	DGHS Manual 5, Page. 34 (2005)	5 % to 40	.0 %
		Salt	DGHS Manual 5, Page. 10 (2005)	0.45 % to	0.85 %
		Water Activity At 25°C	AOAC (19 th Edition) 978.18: 2012	0.01 % to	1.0

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	Bread Thin Crust Pizza Base	Acid Insoluble Ash	DGHS Manual 3, Page. 36 (2005)	0.001 % t	o 0.2 %
		Alcoholic Acidity	DGHS Manual 3, Page. 20 (2005)	0.01 ml to 1N NaOH	0 7.5 ml of I/100g
		Total Fat Content on Dry Basis	DGHS Manual 6, Page. 21 (2005)	5 % to 20	.0 %
с.	Frozen Tortilla Wrap	Moisture	DGHS Manual 5, Page. 34 (2005)	15.0 % to	35.0 %
		pH (10 % Solution)	DGHS Manual 5, Page. 12 (2005)	5.0 to 8.0	
		Salt	DGHS Manual 5, Page. 10 (2005)	0.5 % to 2	2.0 %
		Water Activity, At 25 °C	AOAC (19th Edition) 978.18: 2012	0.01 % to	1.0
		Fat Content	DGHS Manual 6, Page. 21 (2005)	5.0 % to	0.0 %
d.	Cakes	Moisture	IS 1011: 2002, DGHS Manual 3, Page. 35 (2005)	5 % to 15	%
		Total Ash	IS 1011: 2002, DGHS Manual 3, Page. 36 (2005)	0.1 % to :	5 %

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		performed	
Cakes	Acid Insoluble Ash, In Dil HCl on Dry Basis	IS 1011: 2002, DGHS Manual 3, Page. 36 (2005)	0.01 % to 0.5 %
	Acidity of Extracted Fat, as Oleic Acid	IS 1011: 2002, DGHS Manual 3, Page. 38 (2005)	0.1 % to 5.0 %
	Water Activity	AOAC (19 th Edition) 978.18: 2012	0.1 % to 1.0
	Dietary Fibre (Oligosaccharide)	AOAC (19 th Edition) 991.43: 2012	1 % to 15 %
Biscuits, Bread Thin Crust Pizza Base, Frozen	Saturated Fatty Acid	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
Tortilla Wrap, Cakes	Mono Unsaturated Fatty Acid	Issue. 04, Dated. 20-08-2014	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Poly Unsaturated Fatty Acid		0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Total Trans Fatty Acid	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012 Issue. 04, Dated. 20-08-2014	0.003 to 20.0 g/100g LOD: 0.01 g/100g
	Cholesterol	CQAL/INST/STP-24 AOAC (19 th Edition) 994.10: 2012 Issue. 03, Dated. 20-08-2014	0.001 g/100g to 1.0 g/100g LOD: 0.0003 g/100g
	Biscuits, Bread Thin Crust Pizza Base, Frozen Tortilla Wrap,	on Dry Basis Acidity of Extracted Fat, as Oleic Acid Water Activity Dietary Fibre (Oligosaccharide) Biscuits, Bread Thin Crust Pizza Base, Frozen Tortilla Wrap, Cakes Nono Unsaturated Fatty Acid Poly Unsaturated Fatty Acid Total Trans Fatty Acid	CakesAcid Insoluble Ash, In Dil HCl on Dry BasisIS 1011: 2002, DGHS Manual 3, Page. 36 (2005)Acidity of Extracted Fat, as Oleic AcidIS 1011: 2002, DGHS Manual 3, Page. 38 (2005)Water ActivityAOAC (19th Edition) 978.18: 2012Dietary Fibre (Oligosaccharide)AOAC (19th Edition) 978.18: 2012Biscuits, Bread Thin Crust Pizza Base, Frozen Tortilla Wrap, CakesSaturated Fatty AcidCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012Poly Unsaturated Fatty AcidCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012Issue. 04, Dated. 20-08-2014Fotal Trans Fatty AcidCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012CQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012ColesterolCOAL Irans Fatty AcidCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012ColesterolCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012Distarrated Fatty AcidCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012CaleFotal Trans Fatty AcidCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012ColesterolCQAL/INST/STP-07 AOAC (19th Edition) 996.06: 2012

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	Biscuits, Bread Thin Crust Pizza Base, Frozen Tortilla Wrap, Cakes	Sodium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 03, Dated. 20-08-2014	0.5 mg/kg 50000 mg LOD: 0.1	g/kg
	Cares	Calcium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 03, Dated. 20-08-2014	0.5 mg/kg 20000 mg LOD: 0.1	g/kg
		Iron	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 03, Dated. 20-08-2014	0.5 mg/kg 20000 mg LOD: 0.1	g/kg
		Zinc	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	1 mg/kg t LOD: 0.3	to 50000 mg/kg 5 mg/kg
		Copper	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	1 mg/kg t LOD: 0.3	to 50000 mg/kg 5 mg/kg
		Potassium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.5 mg/kg 20000 mg LOD: 0.1	g/kg
		Magnesium	-2011 - 20 00 2011	0.5 mg/kg 20000 mg LOD: 0.1	g/kg

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	Biscuits, Bread Thin Crust Pizza Base, Frozen Tortilla Wrap, Cakes	Phosphorus	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.5 mg/kg 20000 mg LOD: 0.1	g/kg
	Cares	Vitamin A	CQAL/INST/STP-54 Issue. 04, Dated. 20-08-2014	50 μg/kg LOD: 20	to 50000 μg/kg μg/kg
		Vitamin C	CQAL/INST/STP-52 Issue. 04, Dated. 20-08-2014	5 mg/kg t LOD: 2 n	o 5000 mg/kg ng/kg
		Sugar Profile			
		Fructose	CQAL/INST/STP-03 In house Method		g to 100 g/100g
		Glucose	Issue. 04, Dated. 20-08-2014	LOD: 0.0	5 g/100g
		Sucrose			
		Maltose			
		Lactose			
		Total Fat	IS 12711: 1989	10 % to 3	0 %
		Carbohydrates	FAO Food and Nutrition Pape 77, (2003)	er 55 % to 8	0 %
		Total Sugars	DGHS Manual 1 Page. 2 (2005)	15 % to 4	0 %
		Total Protein (N x 6.25)	AOAC (19 th Edition) 984.13: 2012	1 % to 20	0⁄0

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	Biscuits, Bread Thin Crust Pizza	Calories From Fat	FAO Food and Nutrition Pape 77, (2003)	er 100 kcal	to 250 kcal
	Base, Frozen Tortilla Wrap, Cakes	Calories	FAO Food and Nutrition Pape 77, (2003)	er 350 kcal	to 600 kcal
В.	Confectionery Pro	oducts			
a.	Confectionery, Toffees, Lozenges	Moisture Content By Karl Fischer	IS 2362: 1993	1 % to 10	%
		Sulphated Ash	DGHS Manual 4, Page. 54 (2005), IS 6287: 1985	0.1 % to 3	5 %
		Sulphated Ash on Salt as NaCl Free Basis	DGHS Manual 4, Page. 54 (2005), IS 6287: 1985	0.1 % to 3	5 %
		Acid Insoluble Ash, In Dil HCl	DGHS Manual 4, Page. 55 (2005), IS 6287: 1985	0.01 % to	2.0 %
		Fat Content On Dry Basis	DGHS Manual 4, Page. 68 (2005), IS 1163: 1971	2 % to 20	%
		Total Reducing Sugar	IS 6287: 1985	5 % to 50	%
		Sulphur Dioxide Content	IS 4706 (Part 2): 1978	1 mg/kg t	to 250 mg/kg
		FFA As Oleic Acid Of Extracted Fat	IS 548 (Part 1): 1964	0.1 % to 3	5 %
		Acidity As Citric, Malic, Tartaric And Lactic Acid	DGHS Manual 4, Page. 35 (2005)	0.1 % to 2	2.5 %

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b.	Fruit Bar - Jellicious	Brix	DGHS Manual 5, Page. 50 (2005)	70 % to 90 %
		Reducing Sugar	IS 6287: 1985	5 % to 20 %
		Moisture	DGHS Manual 5, Page. 37 (2005)	15 % to 25 %
c.	Chewing Gum	Loss On Drying	DGHS Manual 4, Page. 63 (2005)	1 % to 5 %
		Sucrose	DGHS Manual 4, Page. 62 (2005)	10 % to 70 %
		Gum Content	DGHS Manual 4, Page. 66 (2005)	2 % to 70 %
d.	Modified Toffees- Ecliars, Cofitino, Toffee Chew	Calories	FAO Food and Nutrition Paper 77, (2003)	400 kcal to 450 kcal
		Calories From Fat	FAO Food and Nutrition Paper 77, (2003)	90 kcal to 100 kcal
		Total Fat	IS 1163: 1992	1 g/100g to 15 g/100g
		Carbohydrates	FAO Food and Nutrition Paper 77, (2003)	70 g/100g to 90 g/100g
		Total Sugars	IS 6287: 1985	50 g/100g to 80 g/100g
		Total Protein (N x 6.25)	IS 6287: 1985	1 g/100g to 5 g/100g

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e.	Hard Boiled Confectionery,	Moisture	IS 6287: 1985	5 g/100g to 10 g/100g
	Chewing Gum, Fruit Bar,	Total Ash	IS 6287: 1985	0.5 g/100g to 2 g/100g
	Lozenges	Calories	FAO Food and Nutrition Paper 77, (2003)	300 kcal to 400 kcal
		Carbohydrates	FAO Food and Nutrition Paper 77, (2003)	70 g/100g to 100 g/100g
		Total Sugars	IS 6287: 1985	50 g/100g to 80 g/100g
		Moisture	IS 6287: 1985	0.5 g/100g to 25 g/100g
		Total Ash	IS 6287: 1985	0.01 g/100g to 8 g/100g
f.	Sugar Free Lozenges	Calories	FAO Food and Nutrition Paper 77, (2003)	375 kcal to 450 kcal
		Carbohydrates	FAO Food and Nutrition Paper 77, (2003)	90 g/100g to 100 g/100g
		Moisture	IS 6287: 1985	0.1 g/100g to 2 g/100g
		Total Ash	IS 6287: 1985	0.01 g/100g to 1 g/100g
g.	Hard Boiled Confectionery, Toffees,	Saturated Fatty Acid	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Lozenges, Jellicious,	Mono Unsaturated Fatty Acid	Issue. 03, Dated. 20-08-2014	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Chewing Gum	Poly Unsaturated Fatty Acid		0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g

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	Hard Boiled Confectionery, Toffees, Lozenges, Jellicious,	Total Trans Fatty Acid	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012 Issue. 03, Dated. 20-08-2014	0.03 g/10 20.0 g/10 LOD: 0.0	0g
	Chewing Gum	Cholesterol	CQAL/INST/STP-24 AOAC (19 th Edition) 994.10: 2012 Issue. 03, Dated. 20-08-2014	0.001 g/1 1.0 g/100 LOD: 0.0	g
		Sugar Profile			
		Fructose	CQAL/INST/STP-03		g to 100 g/100g
		Glucose	Issue. 04, Dated. 20-08-2014	LOD: 0.1	g/100g
		Sucrose			
		Maltose			
		Lactose			
		Texture – Hardness – Chewy Candy	CQAL/INST/STP-49 Issue. 04, Dated. 20-08-2014	70 N to 1: LOD: 30	
2.	Canned & Process	ed Foods			
А.	Convenience Foods	S			
a.	Potato Chips	Moisture Content	IS 12575: 2010	0.3 % to 5	5.0 %
	Namkeens	Salt as NaCl	IS 1797: 1985	1.0 % to 5	5.0 %
		Fat Content	IS 12575: 2010	20 % to 4	0 %

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6. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potato Chips Namkeens	Acidity Of Extracted Fat	IS 548 (Part 1): 1964	0.05 % to 1 %
	Traincens	Peroxide Value Of Extracted Fat	IS 548 (Part 1): 1964	1 meq/kg to 10 meq/kg
		p-Anisidine Value of Extracted Fat	AOCS Cd 18-90 (6 th Edition): 2010	1 to 25
		Total Ash	IS 12575: 2010	0.1 % to 5 %
		Acid Insoluble Ash, on Dry Basis	IS 12575: 2010	0.01 % to 0.15 %
		Protein (Nx6.25)	IS 7219: 1973	1.0 % to 25.0 %
		Carbohydrates	FAO Food and Nutrition Paper 77 (2003)	0.1 % to 90.0 %
		Energy	FAO Food and Nutrition Paper 77 (2003)	(50.0 kcal to 900 kcal)/ 100g
		Saturated Fatty Acid	CQAL/INST/STP-36 AOAC (19 th Edition) 996.06: 2012	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
		Mono Unsaturated Fatty Acid	Issue. 04, Dated. 20-08-2014	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
		Poly Unsaturated Fatty Acid		0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
		Total Trans Fatty Acid		0.03 g/100g to 20.0 g/100 LOD: 0.01 g/100g

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	Potato Chips Namkeens	Cholesterol	CQAL/INST/STP-24 AOAC (19 th Edition) 994.10: 2012 Issue. 04, Dated. 20-08-2014	LOD: 0.0	00g to 1.0 g/100g 003 g/100g	
		Sodium CQAL/INST/STP-41 AOAC (19 th Edition)	0.5 mg/kg LOD: 0.1	g to 50000 mg/kg		
	Calcium	999.10: 2012 Issue. 04, Dated. 20-08-2014		iiig/ Kg		
		Iron	155uc. 01, Duiou. 20 00 2011			
		Potassium				
		Magnesium Phosphorus				
		Zinc		1.0 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
		Copper		0.8 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
		CQAL/INST/STP-54 Issue. 04, Dated. 20-08-2014		to 50000 μg/kg		
		Vitamin E	Issue. 04, Dated. 20-08-2014		o 500 mg/kg	
		Vitamin B1 (Thiamin)	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014		o 500 mg/kg mg/kg	
		Vitamin B2 (Riboflavin)	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014		o 500 mg/kg mg/kg	

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	Potato Chips Namkeens	Vitamin B3 (Niacin)	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	1 mg/kg LOD: 0.5	to 500 mg/kg 5 mg/kg
		Vitamin B9 (Folic Acid)		1 mg/kg LOD: 0.5	to 500 mg/kg 5 mg/kg
		Sugar Profile			
		Fructose	CQAL/INST/STP-03		$\log to 100 g/100g$
		Glucose	Issue. 04, Dated. 20-08-2014	LOD: 0.0	03 g/100g
		Sucrose			
		Maltose			
		Lactose			
		Texture – Hardness (Potato Chips & Mad Angles)	CQAL/INST/STP-50 Issue. 01, Dated. 14-07-2014	250 g to LOD: 30	
B.	Instant Mixes				
a.	Gulab Jamun	Moisture	IS 2234: 1989	5 % to 15	5 %
	Mix Rice Dosa Mix	Dirt & Extraneous Matter	IS 2234: 1989	0.01 % to	0 10 %
	Rice Idli Mix Rava Idli Mix	Bulk Density	IS 16033: 2012	0.5 g/cc t	to 2.0 g/cc
		Titratable Acidity	AOAC (19 th Edition) 935.57: 2012	0.1 % to	2.0 %

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	Gulab Jamun Mix Biao Daga Miy	Salt As NaCl	DGHS Manual 5 Page. 10 (2005)	0.5 % to 4.0 %
	Rice Dosa Mix Rice Idli Mix Rava Idli Mix	рН	IS 15557: 2005	1.0 to 14
		Leavening Index	IS 2234: 1989	0.2 % to 3.0 %
		Total Ash	IS 2234: 1989	1.5% to 5.0 %
		Acid Insoluble Ash	IS 2234: 1989	0.01% to 0.5 %
		Protein	IS 7219: 1973	0.1 % to 70.0
		Total Fat	DGHS Manual 6, Page. 39 (2005)	0.1 % to 99.9
		Carbohydrates	FAO Food and Nutrition Paper 77, (2003)	0.1 % to 90.0
		Energy	FAO Food and Nutrition Paper 77, (2003)	50.0 kcal/100g to 900 kcal/100g
		Total Sugars	DGHS Manual 5 Page. 15 (2005)	0.01 % to 80.0 %
		Benzoic Acid	CQAL/INST/STP-16 Issue. 04, Dated. 20-08-2014	3.0 mg/kg to 2000 mg/k LOD: 1 mg/kg
		Sorbic Acid		3.0 mg/kg to 2000 mg/k LOD: 1 mg/kg

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	Gulab Jamun Mix Rice Dosa Mix Rice Idli Mix Rava Idli Mix	Sugar Profile Fructose Glucose Sucrose Maltose	CQAL/INST/STP-03 Issue. 04, Dated. 20-08-2014		g to 100 g/100g 3 g/100g
C.	C. Ready To Eat Meals, Frozen Ready To Eat Meals	Lactose Moisture	DGHS Manual 5 Page. 34 (2005)	10 % to 9	0 %
		Total Soluble Solids (Degree Brix)	IS 5861: 1993	1 % to 20	%
		Titratable Acidity	DGHS Manual 5 Page. 12 (2005), IS 11765: 1996	0.1 % to 1	1.0 %
		Salt As NaCl	DGHS Manual 5 Page. 10 (2005)	0.2 % to 3	3.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14	
D.	Ready To Eat Meals, Frozen Ready To Eat	Saturated Fatty Acids	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012	LOD: 0.1	
	Meals, Tomato Ketchup, Jams & Marmalades,	Mono Unsaturated Fatty Acids	Issue. 04, Dated. 20-08-2014	4 0.3 g/100 LOD: 0.1	g to 50.0 g/100g g/100g
	Halwas, Ginger Masala, Garlic Masala, Red	Poly Unsaturated Fatty Acids		0.3 g/100 LOD: 0.1	g to 50.0 g/100g g/100g

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	Chilli Masala, Chutneys, Conserves, Dehydrated Vegetables,	Total Trans Fatty Acid	CQAL/INST/STP-36 AOAC (19 th Edition) 996.06: 2012 Issue. 04, Dated. 20-08-2014	0.03 g/100g to 20 g/100g LOD: 0.01 g/100g
	Vegetables, Dehydrated White Onion Toasted Minced, Dehydrated Garlis Minced, Fruit Powders, Mango Pulp, Tomato Paste, Parsley, Tomato Powder, Beet Juice Powder, Coconut Milk Powder, Desiccated Coconut Powder	Cholesterol	CQAL/INST/STP-24 AOAC (19 th Edition) 994.10: 2012 Issue. 04, Dated. 20-08-2014	0.001 g/100g to 1.0 g/100g LOD: 0.0003 g/100g
3.	Jams, Juices, Sauc	es & Concentrates		
А.	Tomato Ketchup	Total Soluble Solids	IS 5861: 1993	10 % to 60 %
		Titratable Acidity	IS 13844: 2003	0.1 % to 2.5 %
		Salt As NaCl	DGHS Manual 5 Page. 10 (2005)	0.2 % to 4.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
B.	Jams & Marmalades	Total Soluble Solids	IS 5861: 1993	50 % to 75 %
	Marmalades	Titratable Acidity	IS 13844: 2003	0.1 % to 1.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
		Moisture	DGHS Manual 5 Page. 34 (2005)	10 % to 25 %
C.	Halwas	Total Soluble Solids (Degree Brix)	IS 5861: 1993	40 % to 75 %
		Titratable Acidity	IS 13844: 2003	0.1 % to 1.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
		Water Activity	AOAC (19 th Edition) 978.18: 2012	0.1 % to 1.0
D.	Ginger Masala,	Total Soluble Solids	IS 5861: 1993	2 % to 50 %
	Garlic Masala, Red Chili Masala	Titratable Acidity	IS 13844: 2003	0.1 % to 2.5 %
		Salt As NaCl	DGHS Manual 5 Page. 10 (2005)	0.2 % to 4.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
E.	Chutneys	Total Soluble Solid	IS 5861: 1993	10 % to 90 %
		Titratable Acidity	IS 13844: 2003	0.1 % to 2.0 %

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	Chutneys	Salt As NaCl	DGHS Manual 5 Page. 10 (2005)	0.2 % to 3.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
		Water Activity	AOAC (19 th Edition) 978.18: 2012	0.1 % to 1.0
		Total Ash (On Dry Basis)	IS 3500: 2001	1.0 % to 5.0 %
		Acid Insoluble Ash	IS 3500: 2001	0.01 % to 0.5
F.	Conserves	Total Soluble Solids	IS 5861: 1993	45 % to 75 %
		Titratable Acidity	IS 13844: 2003	0.1 % to 1.5 %
		Salt As NaCl	DGHS Manual 5 Page. 10 (2005)	0.1 % to 1.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
		Water Activity	AOAC (19 th Edition) 978.18: 2012	0.1 % to 1.0
4.	Vegetables & Vege	table Products		
А.	Dehydrated Vegetables	Moisture	DGHS Manual 5 Page. 51 (2005), IS 4627: 1968	1.0 % to 8.0 %
		Total Ash	DGHS Manual 5 Page. 51 (2005)	0.1 % to 10 %

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	Dehydrated Vegetables	Acid Insoluble Ash	DGHS Manual 5 Page. 51 (2005)	0.01 % to	0.5 %
		Peroxidase Test	DGHS Manual 5 Page. 51 (2005)	Qualitativ	/e
		Rehydration Ratio	DGHS Manual 5 Page. 51 (2005)	1 to 10.0	
		Sulphur Dioxide	DGHS Manual 5 Page. 52 (2005), AOAC (19 th Edition) 990.28 2012	0.0	to 200 mg/kg
		Salt As NaCl	DGHS Manual 5 Page. 10 (2005)	1 % to 10	0⁄0
		Bulk Density	IS 16033: 2012	0.1 g/cc t	o 1.0 g/cc
		Particle Size (L)	ITC-FBD/AOP/RTE/FG- 12/06 Issue. 02, Dated. 20-1 2014	1 mm to 2 0-	20 mm
		Particle Size (W)	ITC-FBD/AOP/RTE/FG- 12/06 Issue. 02, Dated. 20-10-2014	1 mm to 1	10 mm
B.	Dehydrated	Extraneous Matter	IS 1797: 1985	0.001 % 1	to 10 %
	White Onion Toasted Minced	Moisture	IS 1797: 1985	0.001 % 1	to 10 %
		Total Ash On Dry Basis	IS 1797: 1985	0.1 % to	10 %
		Acid Insoluble Ash On Dry Basis	IS 1797: 1985	0.01 % to	2 %

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	Dehydrated White Onion	Test For Presence of Peroxidase	DGHS Manual 5 Page. 51 (2005)	Qualitative
	Toasted Minced	Rehydration Ratio	DGHS Manual 5 Page. 51 (2005)	0.1 % to 10.0
		Sulphur Dioxide	IS 4627: 1968	20 mg/kg to 200 mg/kg
		Bulk Density	ITC-FBD/AOP/ST/RM-29/11 Issue. 01, Dated. 22-11-2013	0.1 g/cc to 1.0 g/cc
		Crude Fibre on Dry Basis	IS 1797: 1985	0.1 % to 30.0 %
C.	Dehydrated	Extraneous Matter	IS 1797: 1985	0.001 % to 10 %
	Garlic Minced	Moisture	IS 1797: 1985	0.001 % to 10 %
		Total Ash Db	IS 1797: 1985	0.1 % to 10 %
		Acid Insoluble Ash On Dry Basis	IS 1797: 1985	0.01 % to 2 %
		Test For Presence Of Peroxidase	DGHS Manual 5 Page. 51 (2005)	Qualitative
		Rehydration Ratio	DGHS Manual 5 Page. 51 (2005)	1 to 5.0
		Sulphur Dioxide	IS 4627: 1968	20 mg/kg to 200 mg/kg
		Bulk Density	ITC-FBD/AOP/ST/RM-30/11 Issue. 01, Dated. 22-11-2013	0.1 g/cc to 1.0 g/cc

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5.	Fruit & Fruit Prod	lucts			
А.	Fruit Powders	Acidity As Citric Acid	IS 3883: 1993, DGHS Manual 5 Page. 12 (2005)	0.1 % to 1	0 %
		Dextrose Equivalent (DE)	AOAC (19 th Edition) 923.09 2012, DGHS Manual 5 Page. 16 (2005)	: 10 % to 5	0 %
		Moisture	DGHS Manual 5 Page. 34 (2005)	1 % to 5 9	√o
		pH of 1 % Solution	DGHS Manual 5 Page. 12 (2005)	1 to 14	
		Bulk Density	ITC-FBD/AOP/RTE/FG- 12/02 Issue. 02, Dated. 28-06-2013	0.1 g/cc te	o 1.0 g/cc
В.	Mango Pulp	Colour	ITC-FBD/AOP/SENSORY-0 Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011		'e
		Total Soluble Solids	DGHS Manual 5 Page. 50 (2005)	10 % to 4	0 %
		Acidity	DGHS Manual 5 Page. 12 (2005)	0.1 % to	1.5 %
		рН	DGHS Manual 5 Page. 12 (2005)	1 to 14	

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C.	Parsley	Moisture Content	DGHS Manual 5 Page. 34 (2005)	1 % to 15 %
D.	Tomato Powder	Moisture Content	IS 2362: 1993	0.01 % to 10 %
		Acidity As Citric Acid	IS 3883: 1993, DGHS Manual 5 Page. 12 (2005)	0.01 % to 10 %
E.	Beet Juice Powder	Moisture Content	IS 2362: 1993	% to 10 %
F.	Tomato Paste	Total Soluble Solids	IS 3883: 1993, DGHS Manual 5 Page. 50 (2005)	20 ° to 40 °
		Acidity As Anhydrous Citric Acid	IS 3883: 1993, DGHS Manual 5 Page. 12 (2005)	0.1 % to 3 %
		Salt As NaCl	IS 3883: 1993, DGHS Manual 5 Page. 10 (2005)	0.1 % to 1.0 %
		рН	IS 3883: 1993, DGHS Manual 5 Page. 12 (2005)	1.0 to 14
		Colour Value L,a,b	IS 3883: 1993	2 to 30.0
G.	Coconut Milk	Moisture & Volatile Matter	IS 966: 1999	0.5 % to 5.0 %
	Powder	Free Oil	IS 966: 1999	20 % to 60 %

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	Coconut Milk Powder	Free Fatty Acid As Lauric Acid	IS 966: 1999	0.01 % to 0.5 %
	rowuer	Peroxide Value	IS 548 (Part 1): 1964	0.1 meq/kg to 5 meq/kg
		Total Ash On Dry Basis	IS 966: 1999	0.1 % to 5.0 %
		pH of 10 % Aqueous Solution	IS 15557: 2005	1.0 % to 14.0
H.	Desiccated Coconut Powder	Extraneous Vegetable Matter	IS 1797: 1985, DGHS Manual 5 Page. 50 (2005)	0.1 % to 50 %
		Moisture	IS 966: 1999	0.5 % to 10.0 %
		Free Oil	IS 966: 1999	35 % to 75 %
		Acidity Of Extracted Fat, As Lauric Acid	IS 966: 1999	0.05 % to 1.0 %
		Total Ash On Dry Basis	IS 966: 1999	0.1 % to 5.0 %
		Sulphur-Di-Oxide	IS 4706 (Part 2):1978	5 mg/l to 100 mg/l
6.	Cereals, Pulses &	Cereal Products		
А.	Maida	Moisture	DGHS Manual 3, Page. 17 (2005), IS 1009: 1979	1.0 % to 20.0 %
		Total Ash , Dry Basis	DGHS Manual 3, Page. 17-18 (2005), IS 1009: 1979	0.05 % to 3.0 %
		Acid Insoluble Ash In Dil HCl, Dry Basis	DGHS Manual 3, Page. 18-19 (2005), IS 1009: 1979	0.01 % to 2 %

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	Maida	Gluten Content, Dry Basis	DGHS Manual 3, Page. 19-2 (2005), IS 1009: 1979, AACC (10 th Edition) 38-12	0 1.0 % to 1	15.0 %
		Alcoholic Acidity With 90 % Alcohol As H2SO4, (On Dry Basis)	DGHS Manual 3, Page. 20 (2005), IS 1009: 1979	0.01 % to	1.0 %
		Sedimentation Value	IS 13864: 1993	10.0 ml to	o 35.0 ml
		Pekar Colour Test	AACC (10th Edition) 14-10	Qualitativ	e
В.	Wheat Fibre	Moisture	IS 1011: 2002	0.01 % to	15.0 %
		Total Ash On Dry Basis	IS 1009: 1979	0.01 % to	10 %
		pH Of 10 % Solution	IS 4706: 1978	1.0 to 14.	0
		Nitrogen Content	IS 7219: 1973	0.5 % to 5	5 %
		Total Dietary Fibre	AOAC (19 th Edition) 985.29 2012	: 80 % to 1	00 %
		Particle Size >32 Micron	ITC-FBD/AOP/BS/RM-57/0 Issue. 04 Issue Dated. 9-08-2014	10.0 % to	100.0 %
		Particle Size >100 Micron	ITC-FBD/AOP/BS/RM-57/0 Issue. 04 Issue Dated. 9-08-2014	04 0.01 % to	15 %
C.	White Oats	Taste & Smell	IS 1484: 1975	Qualitativ	ve
		Moisture	IS 1155: 1968	5.0 % to 1	15.0 %

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	White Oats	Total Ash	IS 1155: 1968	0.1 % to 5.0 %
		Acid Insoluble Acid On Dry Basis	IS 1155: 1968	0.01 % to 2.0 %
		Alcoholic Acidity, ml of 1 N NaOH/100g On Dry Basis	IS 1155: 1968	0.5 ml to 15.0 ml
		Nitrogen on Dry Basis	IS 7219: 1973	1.0 % to 3.0 %
		Crude Fibre, On Dry Basis	DGHS Manual 3, Page. 24 (2005)	1.0 % to 30 %
D.	Whole Wheat Atta	Moisture	IS 1155: 1968, DGHS Manual 3, Page. 17 (2005)	6.0 % to 14.0 %
		Total Ash On Dry Basis	IS 1155: 1968, DGHS Manual 3, Page. 17 (2005)	1.0 % to 2.0 %
		Acid Insoluble Ash On Dry Basis	IS 1155: 1968, DGHS Manual 3, Page. 18 (2005)	0.005 % to 0.15 %
		Alcoholic Acidity On Dry Basis	IS 1155: 1968, DGHS Manual 3, Page. 20 (2005)	0.01 % to 0.2 %
		Gluten Content (By Hand Wash) On Dry Basis	IS 1155: 1968, DGHS Manual 3, Page. 19 (2005)	5 % to 13 %

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	Whole Wheat Atta	Damage Starch On Dry Basis (Enzymatic)	AACC (10 th Edition) Method 76-31.01,	1.0 % to 3	30.0 %
		Granulation (Using 100 g of Flour & Sieving for 13 min by Lab Sifter)	ITC-FBD/AOP/ST/FG-01/07 Issue. 03 Dated. 8-11-2012	7	
		$> 425\mu$		0.001 % t	o 5.0 %
		>315µ		0.1 % to 7	7.5 %
		>212µ		1.0 % to 2	25.0 %
		>150µ		9.0 % to 2	23.0 %
		>118µ		3.0 % to 1	17.0 %
		<118µ		40.0 % to	75.0 %
		Atta Colour -L	ITC-FBD/AOP/ST/FG-01/06 Issue. 03 Dated. 8-11-2012	5 80 units to	o 95 units
		Water Absorption %- By Farinograph	AACC (10 th Edition) Method. 54-21,	50 % to 9	0 %
		Dough Colour - L	ITC-FBD/AOP/ST/FG-01/15 Issue. 03 Dated. 8-11-2012	5 40 units to	o 80 units
		Carbon Tetra Chloride Test	AACC (10 th Edition) Method. 28-06 & 28-07,	Qualitativ	re test
		Sedimentation Value	AACC (10 th Edition) Method. 56-70,	30 ml to 9	90 ml

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	Whole Wheat	Fat Content	AOAC (922.06)	0.1 % to 15 %
	Atta	Protein (N X 5.7)	DGHS Manual 3, Page. 22 (2005), IS 7219: 1973	1 % to 20 %
		Total Dietary Fibre	AOAC (19 th Edition) 985.29: 2012	6 % to 18 %
		Carbohydrates	FAO Food and Nutrition Paper 77, (2003)	10 % to 95 %
		Energy	FAO Food and Nutrition Paper 77, (2003)	250 kcal/100g to 450 kcal/100g
		Total Sugars	CQAL/INST/STP-03 In house Method Issue. 04, Dated. 20-08-2014	0.01 % to 80.0 %
E.	Multigrain Atta	Moisture	IS 1155: 1968, DGHS Manual 3, Page. 17 (2005)	6.0 % to 14.0 %
		Total Ash DB	IS 1155: 1968, DGHS Manual 3, Page. 17 (2005)	1.0 % to 3.0 %
		Acid Insoluble Ash on Dry Basis	IS 1155: 1968, DGHS Manual 3, Page. 18 (2005)	Limits of Detection 0.1 % to 15 % 1 % to 20 % 6 % to 18 % 10 % to 95 % 250 kcal/100g to 450 kcal/100g 0.01 % to 80.0 % 6.0 % to 14.0 %
		Alcoholic Acidity on Dry Basis	IS 1155: 1968, DGHS Manual 3, Page. 20 (2005)	0.01 % to 0.2 %

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Multigrain Atta	Granulation(Using 100 G Of Flour & Sieving For 13 Min By Lab Sifter)	ITC-FBD/AOP/ST/FG-11/05 Issue. 01 Dated. 8-11-2012	5	
	> 425µ		0.001 % t	o 5.0 %
	>315µ		0.1 % to 7	7.5 %
	>212µ		1.0 % to 2	25.0 %
	>150µ		9.0 % to 2	23.0 %
	>118µ		3.0 % to 1	17.0 %
	<118µ		40.0 % to	75.0 %
	Damage Starchon Dry Basis (Enzymatic)	AACC (10 th Edition) Method 76-31.01,	1.0 % to 3	80.0 %
	Protein (Nx6.25) on Dry Basis	DGHS Manual 3, Page. 22 (2005) 18 7210: 1072	12.0 % to	25.0 %
	Total Fat DB	(2005), IS 7219: 1973 IS 7836: 1975	1.00 % to	3.0 %
	Atta Colour - L	ITC-FBD/AOP/ST/FG-11/07 Issue. 01 Dated. 8-11-2012	7 80 unit to	95 unit
	Water Absorption %- By Farinograph	AACC (10 th Edition) Method. 54-21,	65 % to 9	0 %
	Dough Colour - L	ITC-FBD/AOP/ST/FG-11/07 Issue. 01 Dated. 8-11-2012	7 40 unit to	80 unit
	Carbon Tetra Chloride Test	AACC (10 th Edition) Method. 28-06 & 28-07	Qualitativ	re test

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	Multigrain Atta	Total Dietary Fibre	AOAC (19th Edition) 985.29: 2012	9 % to 18	5 % 0/0	
		Carbohydrates	FAO Food and Nutrition Pape 77, (2003)	er 10 % to 9	95 %	
		Energy	FAO Food and Nutrition Pape 77, (2003)	er (250 kcal	to 450 kcal)/100g	
		Total Sugars	CQAL/INST/STP-03 In house Method Issue. 04, Dated. 20-08-2014	0.1 % to 2	20.0 %	
F.	Methi Atta	Moisture	IS 1155: 1968, DGHS Manual 3 Page. 17 (2005)	6.0 % to	14 %	
		Alcoholic Acidity On Dry Basis	IS 1155: 1968, DGHS Manual 3, Page. 20 (2005)	0.01 % to	0.3 %	
		Total Ash on Dry Basis	IS 1155: 1968, DGHS Manual 3 Page. 17 (2005)	1.0 % to 4	4.0 %	
		Acid Insoluble Ash on Dry Basis	IS 1155: 1968, DGHS Manual 3 Page. 18 (2005)	0.01 % to	0.3 %	

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	Methi Atta	Granulation(Using 100 G Of Flour & Sieving For 13 Min By Lab Sifter)	ITC-FBD/AOP/ST/FG-01/0 Issue. 03 Dated. 8-11-2012	7	
		$> 425 \mu$		0.1 % to 9	9.0 %
		>315µ		0.1 % to 9	9.0 %
		>212µ		2.0 % to 2	22.0 %
		>150µ		8.0 % to 2	22.0 %
		>118µ		3.0 % to 1	17.0 %
		<118µ		40.0 % to	75.0 %
		Damage Starch on Dry Basis	AACC (10 th Edition) Method 76-31.01,	10.0 % to	30.0 %
		Atta Colour – L	ITC-FBD/AOP/ST/FG-01/0 Issue. 03 Dated. 8-11-2012	6 78.0 unit	to 90.0 unit
		Water Absorption % - By Farinigraph	AACC (10 th Edition) Method. 54-21,	65.0 % to	90.0 %
		Dough Colour – L	ITC-FBD/AOP/ST/FG-01/1 Issue. 03 Dated. 8-11-2012	5 40.0 unit	to 80.0 unit
		Carbon Tetrachloride Test	AACC (10 th Edition) Method. 28-06 & 28-07	Qualitativ	ze test
G.	Wheat	Moisture	IS 1155: 1968	0.1 % to 1	14.0 %

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H.	Soya Flour	Moisture	IS 7836: 1975	1.0 % to 14 %
		Total Ash On Dry Basis	IS 7836: 1975	4 % to 10 %
		Acid Insoluble Ash on Dry Basis	IS 7836: 1975	0.01 % to 0.5 %
		Alcoholic Acidity on Dry Basis	IS 1155: 1968	0.01 % to 0.8 %
		Flour Colour - L	ITC-FBD/AOP/ST/RM- 035/09 Issue. 01 Dated. 8-11- 2012	60 unit to 95unit
		Protein (N x 6.25) On Dry Basis	IS 4684: 1975	40 % to 70 %
		Total Fat	IS 4684: 1975	0.1 % to 5.0 %
		Carbon Tetra Chloride Test	AACC (10 th Edition) Method. 28-06 & 28-07,	Qualitative
I.	Gram Flour	Moisture	IS 1009: 1979	1.0 % to 14 %
		Total Ash on Dry Basis	IS 1009: 1979	1.0 % to 6.0 %
		Acid Insoluble Ash on Dry Basis	IS 1009: 1979	0.01 % to 0.5 %
		Alcoholic Acidity on Dry Basis	IS 1009: 1979	0.01 % to 0.8 %
		Flour Colour -L Unit	ITC-FBD/AOP/ST/RM- 038/09 Issue. 01 Dated. 8-11- 2012	60 unit to 95unit
		Protein (N x 6.25) On Dry Basis	IS 4684: 1975 Appendix C	1.0 % to 40 %
		Total Fat	IS 7836: 1975	0.1 % to 10 %

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	Gram Flour	Carbon Tetra Chloride Test	AACC (10 th Edition) Method. 28-06 & 28-07	Qualitativ	/e	
J.	Maize Flour	Moisture	IS 1155: 1968	0.1 % to	16.0 %	
		Total Ash On Dry Basis	IS 1155: 1968	0.1 % to 3	3.0 %	
		Acid Insoluble Ash on Dry Basis	IS 1155: 1968	0.01 % to	0.2 %	
		Alcoholic Acidity on Dry Basis	IS 1155: 1968	0.01 % to	0.8 %	
		Flour Colour -L	ITC-FBD/AOP/ST/RM- 037/09 Issue 01 Dated 8-11	60 unit to	95 unit	

			037/09 Issue. 01 Dated. 8-11- 2012	
		Protein (Nx6.39) On Dry Basis	IS 7219: 1973	0.1 % to 20.0 %
		Total Fat	IS 7836: 1975	0.1 % to 5.0 %
		Carbon Tetra Chloride Test	AACC (10 th Edition) Method. 28-06 & 28-07	Qualitative
К.	Oat Flour	Moisture	IS 1155: 1968	0.1 % to 14.0 %
		Total Ash On Dry Basis	IS 1155: 1968	0.1 % to 3.0 %
		Acid Insoluble Ash On Dry Basis	IS 1155: 1968	0.01 % to 0.2 %
		Alcoholic Acidity On Dry Basis	IS 1155: 1968	0.01 % to 0.8 %
		Flour Colour -L	ITC-FBD/AOP/ST/RM- 036/09 Issue. 01 Dated. 8-11- 2012	60 unit to 95 unit

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	Oat Flour	Protein (Nx5.83) On Dry Basis	IS 7219: 1973	0.1 % to 15.0 %
		Total Fat	IS 7836: 1975	0.1 % to 10.0 %
		Carbon Tetra Chloride Test	AACC (10 th Edition) Method. 28-06 & 28-07	Qualitative
L.	Isabgol (Psyllium) Husk	Moisture	IS 1155: 1968, IS 13662: 1993	0.1 % to 14 %
		Total Ash on Dry Basis	IS 13662: 1993	0.1 % to 6.0 %
		Acid Insoluble Ash on Dry Basis	IS 13662: 1993	0.01 % to 0.6 %
		Alcoholic Acidity on Dry Basis	IS 13662: 1993	0.01 % to 0.8 %
		Flour Colour -L	ITC-FBD/AOP/ST/RM- 039/09 Issue. 01 Dated. 8-11- 2012	60 unit to 90 unit
		Carbon Tetra Chloride Test	AACC (10 th Edition) Method. 28-06 & 28-07	Qualitative
		Swelling Test	IS 13662: 1993	40 ml to 100 ml
М.	Base Noodles	Moisture	IS 1485: 1993	0.5 % to 12.0 %
		Total Ash on Dry Basis	IS 1485: 1993	1.0 % to 3.0 %
		Acid Insoluble Ash on Dry Basis	IS 1485: 1993	0.01 % to 0.5 %
		Salt As NaCl (As NaCl) on Dry Basis	IS 1797: 1985, DGHS,Lab Manual 5, Page. 10 (2005)	0.1 % to 5.0 %

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	Base Noodles	Free Acidity, ml of 1 N NaOH /100g Of Sample	IS 1485: 1993	0.01 ml to	o 2.0ml
		Rehydration	DGHS Manual 5, Page. 51 (2005)	100 % to	250 %
		Total Solid in Gruel	IS 1485: 1993	6.0 % to	16.0 %
		Free Fatty Acids Of Extracted Fat As Oleic Acid	IS 548 (Part 1): 1964	0.01 % to	1.0 %
		Peroxide Value Of Extracted Fat	IS 548 (Part 1): 1964	0.01 meq	/kg to 30 meq/kg
		Para-Anisidine Value Of Extracted Fat	AOCS Cd 18-90 (6 th Edition 2010	n): 1 to 60	
		Fat Content	IS 12575: 2010	10 % to 5	0 %
		Protein (N x 6.25)	IS 7219: 1973	1 % to 20	%
		Carbohydrates	FAO Food and Nutrition Pa 77, (2003)	per 1 % to 90	.0 %
		Energy	FAO Food and Nutrition Pa 77, (2003)	per (100 kcal	to 800 kcal)/100g
		Total Sugars	CQAL/INST/STP-03 Issue. 04, Dated. 20-08-201	0.01 % to 4	80.0 %
N.	Plain Pasta	Colour	ITC-FBD/AOP/RTE/FG-16 Issue. 02, Dated. 6-11-2014	/01 Qualitativ	7e
		Texture After Cooking	ITC-FBD/AOP/RTE/FG-16 Issue. 02, Dated. 6-11-2014	/01 Qualitativ	7e

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	Plain Pasta	Spiral Length	ITC-FBD/AOP/RTE/FG-16/ Issue. 02, Dated. 6-11-2014	02 5 mm to 3	30 mm
		Thickness	ITC-FBD/AOP/RTE/FG-16/ Issue. 02, Dated. 6-11-2014	02 0.9 mm to	o 1.2 mm
		Moisture	IS 1485: 1993	5.0 % to 1	14.0 %
		Total Ash (On Dry Basis)	IS 1485: 1993	0.1 % to 5	5.0 %
		Acid Insoluble Ash On Dry Basis	IS 1485: 1993	0.01 % to	0.05 %
		Nitrogen (On Dry Basis)	IS 1485: 1993	1.2 % to 3	3.0 %
		Total Solids In Gruel	IS 1485: 1993	2 % to 10	.0 %
		Protein (N x 5.7)	IS 7219: 1973	2 % to 30	%
		Total Fat	DGHS Manual 6 Page. 39 (2005)	0.1 to 50.	0
		Carbohydrates	FAO Food and Nutrition Pap 77, (2003)	er 0.1% to 9	90.0 %
		Energy	FAO Food and Nutrition Pap 77, (2003)	er (40.0 kca)	l to 80 kcal)/100g
		Total Sugars	DGHS Manual 5 Page. 15 (2005)	0.01 % to	80.0 %

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Black Gram/Urd Dal, Red Gram/Tur Dal/Arhar Dal, Bengal Gram, Henga Gram,	Extraneous Matter & Other Refraction	IS 1797: 1985	0.001% to 10.0 %
	Moisture	DGHS Manual 3, Page. 17 (2005)	0.1 % to 20.0 %
norse Gram	Total Ash	DGHS Manual 3, Page. 17 (2005)	0.1 % to 1.0 %
	Acid Insoluble Ash	DGHS Manual 3, Page. 18 (2005)	0.01 % to 0.5 %
Corn Meal	Moisture	DGHS Manual 3, Page. 17 (2005)	5 % to 15 %
	Total Ash	DGHS Manual 3, Page. 17 (2005)	0.1 % to 1.0 %
	Acid Insoluble Ash	DGHS Manual 3, Page. 18 (2005)	0.01 % to 0.5 %
	Fat	IS 7836: 1975	0.01 % to 5.0 %
Rice Meal	Moisture Content	DGHS Manual 3, Page. 17 (2005)	5 % to 15 %
	Total Ash	DGHS Manual 3, Page. 17 (2005)	0.1 % to 1.0 %
	Acid Insoluble Ash	DGHS Manual 3, Page. 18 (2005)	0.01 % to 0.5 %
	Fat Content	IS 7836: 1975	0.01 % to 5.0 %
	Material of Test Black Gram/Urd Dal, Red Gram/Tur Dal/Arhar Dal, Bengal Gram, Horse Gram	Material of TestBlack Gram/Urd Dal, Red Gram/Tur Dal/Arhar Dal, Bengal Gram, Horse GramExtraneous Matter & Other Refraction MoistureTotal AshTotal AshCorn MealAcid Insoluble AshCorn MealTotal AshFat Rice MealFatFat Total AshTotal AshFat Acid Insoluble AshTotal AshAcid Insoluble AshFatAcid Insoluble AshFatAcid Insoluble AshAcid Insoluble AshFat Acid Insoluble AshAcid Insoluble Ash	Material of Testagainst which tests are performedBlack Gram/Urd Dal, Red Gram/Tur Dal/Arhar Dal, Bengal Gram, Horse GramExtraneous Matter & Other RefractionIS 1797: 1985MoistureDGHS Manual 3, Page. 17 (2005)DGHS Manual 3, Page. 17 (2005)Total AshDGHS Manual 3, Page. 17 (2005)Acid Insoluble AshDGHS Manual 3, Page. 18 (2005)Corn MealMoistureDGHS Manual 3, Page. 17 (2005)Acid Insoluble AshDGHS Manual 3, Page. 17 (2005)Total AshDGHS Manual 3, Page. 17 (2005)FatIs 7836: 1975Rice MealMoisture ContentDGHS Manual 3, Page. 17 (2005)Moisture ContentDGHS Manual 3, Page. 17 (2005)Total AshDGHS Manual 3, Page. 18 (2005)Acid Insoluble AshDGHS Manual 3, Page. 17 (2005)Acid Insoluble AshDGHS Manual 3, Page. 18 (2005)

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	Rice Meal	Amylose	ITC/FBD/AOP/SF/RM-02/08, Issue. 03, Dated. 9-09-2014	15 % to 45 %
R.	Gram Meal	Moisture Content	DGHS Manual 3, Page. 17 (2005)	5 % to 15 %
		Total Ash	DGHS Manual 3, Page. 17 (2005)	0.1 % to 5.0 %
		Acid Insoluble Ash	DGHS Manual 3, Page. 18 (2005)	0.01 % to 0.5 %
S.	Maida, Wheat Fibre, White Oats, Whole	Saturated Fatty Acid	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Wheat Atta, Multigrain Atta, Wheat, Soya	Mono Unsaturated Fatty Acid	Issue. 04, Dated. 20-08-2014	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Flour, Gram Flour, Maize Flour, Oat Flour,	Poly Unsaturated Fatty Acid		0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Piour, Oat Fiour, Psyllium Husk, Base Noodles, Plain Pasta, Black Gram/Urad Dal,	Total Trans Fatty Acid	CQAL/INST/STP-36 AOAC (19 th Edition) 996.06: 2012 Issue. 04, Dated. 20-08-2014	0.03 g/100g to 20 g/100g LOD: 0.01 g/100g
	Red Gram/Toor Dal/Arhar Dal, Bengal Gram, Horse Gram,	Cholesterol	CQAL/INST/STP-24 AOAC (994.10) Issue. 04, Dated. 20-08-2014	0.001 g/100g to 1 g/100g LOD: 0.0003 g/100g
	Corn Meal, Rice Meal, Gram Meal	Sodium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012	2.0 mg/kg to 1000 mg/kg LOD: 1 mg/kg
		Calcium	Issue. 03, Dated. 20-08-2014	2.0 mg/kg to 1000 mg/kg LOD: 1 mg/kg

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	Maida, Wheat Fibre, White	Iron		2.0 mg/kg to 1000 mg/kg LOD: 1 mg/kg
	Oats, Whole Wheat Atta, Multigrain Atta,	Potassium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10:	0.5 mg/kg to 1000 mg/kg LOD: 0.2 mg/kg
	Wheat, Soya Flour, Gram Flour, Maize	Magnesium	2012 Issue. 03, Dated. 20-08-2014	2.0 mg/kg to 1000 mg/kg LOD: 0.5 mg/kg
	Flour, Oat Flour, Psyllium Husk, Base Noodles,	Zinc		1.0 mg/kg to 1000 mg/kg LOD: 0.6 mg/kg
	Plain Pasta, Black Gram/Urad Dal,	Copper		0.8 mg/kg to 1000 mg/kg LOD: 0.6 mg/kg
	Red Gram/Toor Dal/Arhar Dal, Bengal Gram,	Vitamin A	CQAL/INST/STP-54 Issue. 04, Dated. 20-08-2014	100 IU/kg to 50000 IU/kg LOD: 30 μg/kg
	Horse Gram, Corn Meal, Rice	Vitamin E		2.0 mg/kg to 500 mg/kg LOD: 0.5 mg/kg
	Meal, Gram Meal	Vitamin C	CQAL/INST/STP-52 Issue. 04, Dated. 20-08-2014	5 mg/kg to 5000 mg/kg LOD: 2 mg/kg
		Vitamin B1 (Thiamin)	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 mg/kg to 500 mg/kg LOD: 0.5 mg/kg
		Vitamin B2 (Riboflavin)		
		Vitamin B3 (Niacin)	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 mg/kg to 500 mg/kg LOD: 0.5 mg/kg
		Vitamin B9 (Folic Acid)		1 mg/kg to 500 mg/kg LOD: 0.5 mg/kg
		Vitamin B12	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	100 μg/kg to 5000 μg/kg LOD: 30 μg/kg

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7.	Coffee And Cocoa	Products			
А.	Cocoa Powder	Odour & Taste	ITC-FBD/AOP/SENSORY-0 Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	8 Qualitativ	7e
		Moisture	DGHS Manual 4, Page. 19 (2005), IS 1164: 1986	0.01-10.0	%
		Total Ash (Moisture & Fat Free Basis)	DGHS Manual 4, Page. 3 (2005), IS 1164: 1986	1.0 % to 2	20.0 %
		Acid Insoluble Ash (Moisture & Fat Free Basis)	DGHS Manual 4, Page. 5 (2005), IS 1164: 1986	0.01 % to	3.0 %
		Alkalinity Of Ash (As K ₂ O, Moisture & Fat Free Basis)	IS 1164: 1986	1.0 % to 1	15.0 %
		Cocoa Butter - For Low Fat (Moisture Free Basis)	DGHS Manual 4, Page. 19 (2005), IS 1164: 1986	5.0 % to 2	20.0 %
В.	Plain Chocolate Chips	Count	ITC-FBD/AOP/BS/RM-56/0 Issue. 03 Dated. 3-05-2011	1 (100 to 1:	500)/100g
		Moisture	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.01 % to	5.0 %
		Total Fat Content On Dry Basis	DGHS Manual 4, Page. 68 (2005), IS 1163: 1992	5.0 % to 3	50.0 %
		Cocoa Solids, Moisture And Fat Free Basis	DGHS Manual 4, Page. 73 (2005)	2.0 % to 2	20.0 %

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	Plain Chocolate Chips	Acid Insoluble Ash (Moisture, Sugar & Fat Free Basis)	DGHS Manual 4, Page. 5 (2005), IS 11923: 1986	0.01 % to	0.5 %
		Sugar (Sucrose) On Dry Basis	IS 1163: 1992	20.0 % to	80.0 %
C.	Dark Chocolate	Colour	ITC-FBD/AOP/SENSORY-0 Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	98 Qualitativ	7e
		Taste	ITC-FBD/AOP/SENSORY-0 Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	98 Qualitativ	7e
		Total Fat Content On Dry Basis	DGHS Manual 4, Page. 68 (2005), IS 1163: 1992	10.0 % to	50.0 %
		Moisture	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.01 % to	5.0 %
		Moisture by KF	IS 2362: 1993	0.01 % to	5.0 %
		Cocoa Solids (Moisture & Fat Free Basis)	DGHS Manual 4, Page. 73 (2005)	5.0 % to 2	20.0 %
		Acid Insoluble Ash (Moisture, Sugar & Fat Free Basis)	DGHS Manual 4, Page. 5 (2005), IS 11923: 1986	0.01 % to	0.5 %
		Particle Size	ITC-FBD/AOP/BS/RM-70/0 Issue. 03 Dated. 3-052011	7 1.0 μ to 5	0.0 μ
		Sugar	IS 1163: 1992	20.0-80.0	0⁄0

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D.	Choco Cream	Taste	ITC-FBD/AOP/SENSORY-0 Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	· ·	/e
		Moisture	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.01 % to	5.0 %
		Cocoa Solids	DGHS Manual 4, Page. 73 (2005)	5.0 % to 2	20.0 %
		Particle Size	ITC-FBD/AOP/BS/RM-75/0 Issue. 03 Dated. 3-05-2011	5 1.0 μ to 5	0μ
		Total Fat	DGHS Manual 4, Page. 68 (2005), IS 1163: 1992	25 % to 5	0 %
Е.	Choco Covering	Moisture by Oven Method	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.01 % to	5.0 %
		Moisture By KF	IS 2362: 1993	0.01 % to	5.0 %
		Total Fat	DGHS Manual 4, Page. 68 (2005), IS 1163: 1992	10 % to 3	5 %
		Particle Size, Micron	ITC-FBD/AOP/BS/RM-75/0 Issue. 03 Dated. 3-05-2011	5 1.0 μ 50 μ	1
F.	Cocoa Butter	Colour	ITC-FBD/AOP/SENSORY-0 Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	•	re
		Taste	ITC-FBD/AOP/SENSORY-0 Issue. 01 Dated. 23-09-2015, ASTM E213 9-05-2011	•	re

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	Cocoa Butter	Mineral Oil	IS 528 (Part 2): 1976	Qualitative
		Melting Point	IS 1263: 1986	20°C to 45 °C
		Free Fatty Acid As Oleic Acid	DGHS Manual 2, Page. 28 (2005)	0.01 % to 5.0 %
		Saponification Value	DGHS Manual 2, Page. 21 (2005)	(150 mg to 250 mg) KOH/g
		Iodine Value	DGHS Manual 2, Page. 30 (2005)	25 to 50
		Refractive Index At 40°C	DGHS Manual 2, Page. 5 (2005)	1.0 to 2.0
G.	Chocolate Paste	Moisture Content	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.1 % to 2 %
		Total Fat Content On Dry Basis	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	20 % to 40 %
		Sucrose Content On Dry Basis	IS 1163: 1992	1 % to 45 %
		Acid Insoluble Ash (On Moisture, Fat Free Basis)	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.01 % to 0.2 %
		Alkalinity Of Total Ash As K ₂ O In (Moisture And Fat Free Basis)	IS 1164: 1986	0.01 % to 5 %

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8.	Pure Coffee				
А.	Roasted Coffee, Ground Coffee,	Moisture	IS 3077: 1992	0.1 % to 1	15.0 %
	and Coffee	Total Ash on Dry Basis	IS 3077: 1992	0.1 % to 1	15.0 %
Green/Raw/Unr asted/Liquid		Acid Insoluble Ash on Dry Basis	IS 3077: 1992	0.01 % to	2.0 %
	Concentrate	Water Soluble Ash on Dry Basis	IS 3077: 1992	40.0 % to	99.0 %
		Alkalinity Of Soluble Ash on Dry Basis	IS 3077: 1992	1.0 % to 1	15.0 %
		Aqueous Extract(Water Soluble Matter) on Dry Basis	IS 3077: 1992	10 % to 9	0 %
		Total Fat on Dry Basis	IS 3077: 1992	0.1 % to 3	30.0 %
		Total Carbohydrates	FAO, Food and Nutrition Paper 77, (2003)	10 % to 9	0 %
		Energy	FAO, Food and Nutrition Paper 77, (2003)	(50 kcal t	o 600 kcal)/100g
		Total Protein	IS 7219: 1973	0.5 % to 3	30.0 %
В.	Soluble Pure Coffee Powder	Moisture	IS 2791: 1992	0.2 % to 1	15.0 %
	Conce i Owuei	Total Ash on Dry Basis	IS 2791: 1992	0.1 % to 2	20.0 %
		Solubility In Boiling Water	IS 2791: 1992	5 s to 50 s	5
		Solubility In Cold Water 16 ± 2 C	IS 2791: 1992	1 min to 6	5 min

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	Soluble Pure Coffee Powder	Total Fat on Dry Basis	IS 3077: 1992	0.1 % to 20.0 %
	Conce I owder	Total Carbohydrates	FAO, Food and Nutrition Paper 77, (2003)	10 % to 90 %
		Energy	FAO, Food and Nutrition Paper 77, (2003)	(50 kcal to 600 kcal)/100g
		Total Protein	IS 7219: 1973	0.5 % to 40.0 %
C.	Chicory			
a.	Roasted Chicory	Moisture	IS 612: 1992	0.5 % to 15.0 %
		Total Ash on Dry Basis	IS 612: 1992	1.0 % to 20 %
		Acid Insoluble Ash On Dry Basis	IS 612: 1992	0.1 % to 2.0 %
		Aqueous Extract(Water Soluble Matter) on Dry Basis	IS 612: 1992	20.0 % to 90.0 %
		Total Fat on Dry Basis	IS 3077: 1992	0.1 % to 20.0 %
		Total Protein	IS 7219: 1973	0.5 % to 20.0 %
		Total Carbohydrates	FAO, Food and Nutrition Paper 77, (2003)	10 % to 99 %
		Energy	FAO, Food and Nutrition Paper 77, (2003)	(50 kcal to 600 kcal)/100g
b.	Roasted Coffee Chicory Mixture	Moisture	IS 3077: 1992	0.5 % to 15.0 %

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	Roasted Coffee Chicory Mixture	Total Ash on Dry Basis	IS 3077: 1992	1.0 % to 20 %
	Chicory Mixture	Acid Insoluble Ash on Dry Basis	IS 3077: 1992	0.01 % to 5.0 %
		Aqueous Extract (Water Soluble Matter) on Dry Basis	IS 3077: 1992	30.0 % to 98.0 %
		Total Fat on Dry Basis	IS 3077: 1992	0.1 % to 30.0 %
		Protein	IS 7219: 1973	0.5 % to 35.0 %
		Total Carbohydrates	FAO, Food and Nutrition Paper 77, (2003)	10 % to 90 %
		Energy	FAO, Food and Nutrition Paper 77, (2003)	(50 kcal to 600 kcal)/100g
D.	Soluble Coffee Ch	icory		
a.	Instant Coffee	Moisture	IS 2791: 1992	0.5 % to 15.0 %
	Chicory Mixture	Total Ash on Dry Basis	IS 2791: 1992	1.0 % to 30 %
		Acid Insoluble Ash on Dry Basis	IS 3077: 1992	0.1 % to 5.0 %
		Solubility In Boiling Water	IS 2791: 1992	5 s to 50 s
		Solubility In Cold Water 16 ± 2 C	IS 2791: 1992	1 min to 6 min
		Total Fat on Dry Basis	IS 3077: 1992	0.1 % to 20.0 %
		Protein	IS 7219: 1973	0.5 % to 30.0 %

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	Instant Coffee Chicory Mixture	Total Carbohydrates	FAO, Food and Nutrition Paper 77, (2003)	10 % to 9	9 %
		Energy	FAO, Food and Nutrition Paper 77, (2003)	(100 kcal	to 600 kcal)/100g
b.	White Cream	Moisture Content (LOD)	IS 6287: 1985	0.1 % to 2	2 %
		Total Fat Content on Dry Basis	IS 1163: 1992	27 % to 3	2 %
		Sucrose Content on Dry Basis	IS 4079: 1967	45 % to 5	1 %
		Acid Insoluble Ash (on Moisture, Fat & Sugar Free Basis)	IS 1163: 1992	0.01 % to	0.2 %
c.	Coffee Extract	Moisture Content	IS 4467: 1996	20 % to 2	5 %
d.	Cocoa Liquor, Cocoa Mass	Moisture Content	IS 11923: 1986	0.1 % to 5	5 %
	Cocoa Mass	Fat Content	IS 11923: 1986	45 % to 6	5 %
		pH Of 10 % Solution	IS 11923: 1986	3.5 to 5.5	
e.	Butterscotch Chips	Aroma & Taste	ITC-FBD/AOP/SENSORY-(Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	· ·	e
		Moisture	IS 1164: 1986	% to 5 %	
		Total Fat	IS 1164: 1986	5.0 % to	20.0 %

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Е.	Gancahe Chocolat	te				
a.	Milk Chocolate Ganache, Dark Chocolate Ganache	Moisture	AOAC (19 th Edition) 977.10: 2012	0.1 % to 3	30.0 %	
		Total Fat, on Dry Basis	DGHS Manual 4, Page. 67, IS 1163: 1992	2.0 % to 7	70.0 %	
		Milk Fat, on Dry Basis	DGHS Manual 4, Page. 67, IS 1163: 1992	0.1 % to 4	40.0 %	
		Cocoa Solids, (Moisture And Fat Free Basis)	DGHS Manual 4, Page. 67, IS 1163: 1992	0.1 % to 2	20.0 %	
		Milk Solids	IS 1163: 1992	0.01 % to	20.0 %	
		Total Ash	DGHS Manual 4, Page. 67, IS 1163: 1992	0.1 % to	10.0 %	
		Acid Insoluble Ash	DGHS Manual 4, Page. 67, IS 1163: 1992	0.005 % t	to 2.0 %	
		Water Activity	AOAC (19 th Edition) 978.18: 2012	0.650 to ().999	
		Sugars (Sucrose)	IS 1163: 1992	5.00 % to	60.0 %	
		Protein	AOAC (19 th Edition) 970.22: 2012	0.01 % to	15.0 %	
		Carbohydrates	FAO, Food & Nutrition, Pape 77, (2003)	er 10.0 % to	65.0 %	
		Energy Kcal/100g	FAO, Food & Nutrition, Pape 77, (2003)	er (300 kcal	to 700 kcal)/100g	

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b.	Inner Filled Chocolate	Moisture	AOAC (19th Edition) 977.10 2012	: 0.1 % to	15.0 %	
		Total Fat, On Dry Basis	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	2.0 % to :	55.0 %	
		Milk Fat, On Dry Basis	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.005 % 1	to 40.0 %	
		Cocoa Solids (Moisture And Fat Free Basis)	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.1 % to 4	40.0 %	
		Total Ash	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.1 % to	12.0 %	
		Acid Insoluble Ash	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992	0.005 % 1	to 2.0 %	
		Sugars (Sucrose)	IS 1163: 1992	5.00 % to	65.0 %	
		Protein	AOAC (19th Edition) 970.22 2012	: 0.01 % to	0 15.0 %	
		Carbohydrates	FAO, Food & Nutrition, Pap 77, (2003)	er 10.0 % to	0 70.0 %	
		Energy	FAO, Food & Nutrition, Pap 77, (2003)	er 300 kcal/ 700 kcal/		

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2.	Cocoa Powder, Plain Chocolate Chips, Dark	Saturated Fatty Acid	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012 Issue. 04, Dated. 20-08-	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Chocolate, Choco Cream, Choco Covering,	Mono Unsaturated Fatty Acid	2012 Issue: 04, Duced: 20 00 2014	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Cocoa Butter, Chocolate Paste, Pure Coffee,	Poly Unsaturated Fatty Acid		0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Coffee-Chicory Powder, White Cream, Coffee Extract, Cocoa	Total Trans Fatty Acid	CQAL/INST/STP-36 AOAC (19 th Edition) 996.06: 2012 Issue. 04, Dated. 20-08- 2014	0.03 g/100g to 20 g/100g LOD: 0.01 g/100g
	Liquor, Cocoa Mass, Butterscotch Chips, Inner Filled Chocolate, Ganache	Cholesterol	CQAL/INST/STP-24 AOAC (19 th Edition) 994.10: 2012 Issue. 04, Dated. 20-08- 2014	0.001 g/100g to 1 g/100g LOD: 0.001 g/100g
	Chocolate	Sodium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 03, Dated. 20-08- 2014	2.0 μg/kg to 1000 μg/kg LOD: 0.5 μg/kg
		Calcium		2.0 mg/kg to 1000 mg/kg LOD: 1 mg/kg
		Iron		2.0 mg/kg to 1000 mg/kg LOD: 1 mg/kg
		Potassium		0.5 mg/kg to 1000 mg/kg LOD: 0.2 mg/kg
		Magnesium		2.0 mg/kg to 1000 mg/kg LOD: 0.5 mg/kg

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	Cocoa Powder, Plain Chocolate	PhosPhorus	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10:	2.0 mg/kg to 1000 mg/kg LOD: 0.5 mg/kg
	Chips, Dark Chocolate, Choco Cream,	Zinc	2012 Issue. 03, Dated. 20-08- 2014	1.0 mg/kg to 1000 mg/kg LOD: 0.6 mg/kg
	Choco Covering, Cocoa Butter, Chocolate Paste,	Copper		0.8 mg/kg to 1000 mg/kg LOD: 0.6 mg/kg
	Pure Coffee, Coffee-Chicory Powder, White Cream, Coffee Extract, Cocoa	Caffeine	CQAL/INST/STP-01, AOAC (19 th Edition) 980.01: 2012, Issue. 04, Dated. 20-08-2014	5 mg/kg to 10 20 mg/kg LOD: 0.5 mg/kg
	Liquor, Cocoa Mass, Butterscotch Chips, Inner	Theobromine	CQAL/INST/STP-46, AOAC (19 th Edition) 980.01: 2012, Issue. 04, Dated. 20-08-2014	20 mg/kg to 10 550 mg/kg LOD: 0.5 mg/kg
	Filled Chocolate, Ganache	Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	1 µg/kg to 300 µg/kg
	Chocolate	Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	5 μ g/kg to 300 μ g/kg
		Inorganic Bromide	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	10 μg/kg to 300 μg/kg
		Sugar Profile		
		Fructose	CQAL/INST/STP-03	0.5 g/100g to 100 g/100g
		Glucose	Issue. 04, Dated. 20-08-2014	LOD: 0.03 g/100g
		Sucrose		
		Maltose		
		Lactose		

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9.	Milk And Dairy P	roducts			
А.	Skimmed Milk Powder	Moisture	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992,	0.1 % to 1	10.0 %
		Total Ash Odb	DGHS Manual 4, Page. 67 (2005), IS 1163: 1992,	5.0 % to 1	15.0 %
		Titrable Acidity (ml 0.1 N NaOH / 10g Solids Not Fat)	DGHS Manual 1, Page. 67 (2005)	5.0 ml to	25.0ml
		Titratable Acidity As Lactic Acid	DGHS Manual 1, Page. 67 (2005)	0.1 % to 5	5 %
		Milk Fat	DGHS Manual 1, Page. 66 (2005)	0.05 % to	5.0 %
		Protein (N x 6.38) In Milk Solids Not Fat	DGHS Manual 1, Page. 34 (2005)	20 % to 5	0 %
		Insolubility Index	IS 12759: 1989	0.1 ml to	5.0 ml
		Lactose Content	DGHS Manual 1, Page. 49 (2005)	40 % to 6	0 %
		Bulk Density	IS 16033: 2012	0.4 g/ml t	o 1.0 g/ml
		Scoarched Particles	IS 13500: 1992	0 to 50 m	g (Disc-A,B,C,D)
		Total Carbohydrates	FAO Food and Nutrition Pap 77, (2003)	per 1 % to 20	0⁄0
		Energy	FAO Food and Nutrition Pap 77, (2003)	er (50 kcal t	o 500 kcal)/100g

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В.	Whey Powder	Moisture	DGHS Manual 1, Page. 84 (2005)	0.01 % to	10.0 %	
		Milk Fat	DGHS Manual 1, Page. 65 (2005)	0.05 % to	5.0 %	
		Milk Protein (N X6.38)	DGHS Manual 1, Page. 44 (2005), AOAC (19 th Edition) 991.23 2012	1.0 % to 2	20.0 %	
		Total Ash On Dry Basis	DGHS Manual 1, Page. 68 (2005)	5.0 % to 1	15.0 %	
		pH Of 10 % Solution	DGHS, Manual 1, Page. 85 (2005)	2.0 % to 8	3.0	
		Lactose Content, As Anhydrous Lactose On Dry Basis	DGHS Manual 1, Page. 49 (2005)	40 % to 8	5 %	
C.	Condensed Milk, Sweetened Condensed Milk	Moisture	DGHS Manual 1, Page. 47 (2005)	20 % to 3	5 %	
	Condensed Milk	Total Milk Solids	DGHS Manual 1, Page. 48 (2005)	20 % to 4	0 %	
		Total Fat	DGHS Manual 1, Page. 65 (2005)	1.0 % to 1	15.0 %	
		Titratable Acidity, As Lactic Acid	DGHS Manual 1, Page. 63 (2005)	0.01 % to	1.0 %	
		Sucrose	DGHS Manual 1, Page. 49 (2005)	30 % to 5	0 %	

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	Condensed Milk, Sweetened Condensed Milk	Protein In Milk Solids not Fat	DGHS Manual 1, Page. 34 (2005)	20 % to 5	0 %
	Condensed Wilk	Lactose Crystal Size (70 % Of Lactose Crystals)	IS 1166: 1986	1 μ to 25	l
D.	Butter	Moisture	DGHS Manual 1, Page. 76 (2005)	1.0 % to 2	25.0 %
		Titrable Acidity, As Lactic Acid	IS 3507: 1966	0.01 % to	0.5 %
		Salt as NaCl	DGHS Manual 1, Page. 78 (2005)	0.02 % to	5.0 %
		Milk Solids not Fat	DGHS Manual 1, Page. 77 (2005)	0.1 % to :	5.0 %
		Total Fat	DGHS Manual 1, Page. 77 (2005)	60 % to 1	00 %
		Curd Content	DGHS Manual 1, Page. 77 (2005)	0.1 % to 2	2.0 %
		Free Fatty Acid Of Melted Butter as Oleic Acid	DGHS Manual 1, Page. 81 (2005)	0.01 % to	0.30 %
		Baudouin Test	IS 10633: 1999	Qualitativ	/e
		Reichert – Meissl Value	DGHS Manual 1 Page. 81	20 to 32	

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Polenske Value

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1.0 to 3.0

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	Butter	Butyro Refractometer Reading At 40° C	DGHS Manual 1 Page. 81 (2005)	40 to 50		
		Peroxide Value	DGHS Manual 1 Page. 81 (2005)	0.1 meg/k	ag to 10 meg/kg	
		Colour Value	ITC-FBD/ AOP/DAIRY/FG- 01/ 16) units to 100	
Е.	Butter Oil	Free Fatty Acid As Oleic Acid	DGHS Manual 1, Page. 81 (2005)	0.01 % to	0.4 %	
		Moisture	DGHS Manual 1, Page. 80 (2005)	0.01% to	0.4 %	
F.	Dairy Whitener	Flavors & Taste	ITC-FBD/AOP/SENSORY-(~	/e	
		Colour	Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	Qualitativ	ve	
		Overall Sensory Evaluation (After Reconstitution)		Qualitativ	7e	
		Description	IS 12299: 1998	Qualitativ	ve	
		Moisture	IS 12299: 1998	1 % to 5 9	2/0	
		Ash on DB	IS 12299: 1998	0.1-10.0	/0	
		Acid Insoluble Ash on Dry Basis	IS 12299: 1998	0.01 % to	0.15 %	
		Insolubility Index	IS 12299: 1998	0.1 ml to	2.0 ml	

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	Dairy Whitener	Milk Fat	IS 12299: 1998	15 % to 22 %
		Milk Solids (Not Fat)	IS 12299: 1998	50 % to 60 %
		Total Added Sugar (As Sucrose)	IS 12299: 1998	10 % to 25 %
		Bulk Density, G/Ml	IS 16033: 2012	0.4 g/ml to 1.0 g/ml
		Scoarched Particles	IS 13500: 1992	0 to 50 mg(Disc-A,B,C,D)
		Colour Value – Hunter Lab	ITC-FBD/AOP/Dairy/FG- 01/17	L = 1 units to 100 units a = (-)100 units to 100 units b = 1 units to 100 units
		Titratable Acidity As Lactic Acid, %	DGHS Manual 1, Page. 63 (2005)	0.5 % to 2.0 %
		pH Of 10 % Solution	DGHS Manual 5, Page. 12 (2005)	1 to 14
		Total Carbohydrates, %	FAO Food and Nutrition Paper 77, (2003) DGHS Manual 1, Page. 68 (2005)	1 % to 20 %
		Energy, Kcal/100g	FAO Food and Nutrition Paper 77, (2003)	(50 kcal to 500 kcal)/100g
		Protein (N X 6.38), %	DGHS Manual 1, Page. 44 (2005)	(20 % to 40 %

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G.	Ghee	Moisture	IS 3508: 1966	0.05 % to 0.5 %
		Free Fatty Acids As Oleic Acid	IS 3508: 1966	0.1 % to 5.0 %
		Butyro Refractometer Reading At 40°C	IS 3508: 1966	40 to 50
		Baudouin Test	IS 3508: 1966	Qualitative
		Peroxide Value	DGHS Manual 1, Page. 81 (2005)	0.1 to 10
		RM Value	DGHS Manual 1, Page. 81 (2005)	20 to 32
		Polenske Value	DGHS Manual 2, Page. 40 (2005)	1.0 to 3.0
		Holde's Test	DGHS Manual 2, Page. 76 (2005)	Qualitative
		Rancidity Test	DGHS Manual 2, Page. 99 (2005)	Qualitative
		Curd Content	DGHS Manual 1 Page. 77 (2005)	0.01 % to 0.5 %
		Titratable Acidity, % Lactic Acid	IS 3507: 1966	0.01 % to 0.5 %
		Total Fat	DGHS Manual 1 Page. 77 (2005)	10 % to 100 %
		Total Protein	DGHS Manual 1 Page. 44 (2005)	0.1 % to 6.0 %

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	Ghee	Total Ash	IS 1479 (Part 2): 1961	0.1 % to 0.5 %
		Total Carbohydrates	FAO Food and Nutrition Paper 77, (2003)	0 to 5 %
		Energy	FAO Food and Nutrition Paper 77, (2003)	(50 kcal to 900 kcal)/100g
		Colour Value	ITC-FBD/ AOP/DAIRY/FG- 01/ 16	L= 0 to 100 units, a = 0 to 100 units, b = 0 to 100 units
Н.	Eggless Mayonnaise/ Seasoned Cheese Blend	Total Soluble Solids	AOAC (19 th Edition) 935.56: 2012, DGHS Manual 5 Page. 50 (2005), IS 5861: 1993	10 % to 25 %
	Dienu	Titratable Acidity	AOAC (19 th Edition) 935.57: 2012, IS 13844: 2003	0.1 % to 1.0 %
		Salt as NaCl	DGHS Manual 5 Page. 10 (2005)	0.2 % to 2.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
I.	Milk	Water Content	DGHS Manual 1 Page. 23 (2005)	70 % to 90 %
		Total Solids	DGHS Manual 1 Page. 23 (2005)	1 % to 40 %
		Total Fat	DGHS Manual 1 Page. 25 (2005)	1 % to 10 %

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	Milk	Total Protein(As N X 6.38)	DGHS Manual 1 Page. 44 (2005)	0.1 % to 6	5 %
		Total Ash	IS 1479 (Part 2): 1961	0.1 % to 2	2.0 %
		Total Carbohydrates	DGHS Manual 1 Page. 68 (2005)	1 % to 20	%
		Acidity (As Lactic Acid)	DGHS Manual 1 Page. 63 (2005)	0.01 % to	5.0 %
		pH (As is Basis)	DGHS Manual 5 Page. 12 (2005)	0 to 14	
		Lactose	DGHS Manual 1 Page. 85 (2005)	1 % to 10	%
		Energy	FAO Food and Nutrition Pap 77, (2003)	er 10 kcal/10 150 kcal/2	
		Clot on Boiling Test (COB)	IS 1479 (Part 1): 1960	Qualitativ	ve
		Alcohol Test	IS 1479 (Part 1): 1960	Qualitativ	ve
		Heat Stability Test	ITC-FBD/AOP/DAIRY/RM- 01/39	- Qualitativ	/e
		Neutralizer (Rosalic Acid)	DGHS Manual 1 Page. 12 (2005)	Qualitativ	/e
		Starch Test	DGHS Manual 1 Page. 3 (2005)	Qualitativ	7e

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	Milk	Sodium Chloride Test	DGHS Manual 1 Page. 10 (2005)	Qualitative
		Cane Sugar	DGHS Manual 1 Page. 1 (2005)	Qualitative
		Formalin	DGHS Manual 1 Page. 1 (2005)	Qualitative
		Nitrate Compounds	DGHS Manual 1 Page. 1 (2005)	Qualitative
J.	Milkshake	Flavour & Taste	ITC-FBD/AOP/SENSORY-08 Issue. 01 Dated. 23-09-2015, ASTM E2139-05: 2011	Qualitative (Sensory score)
		Colour	ASTM E2139-03. 2011	Qualitative (Sensory score)
		Body/Consistency		Qualitative (Sensory score)
		Overall Sensory Evaluation		Qualitative (Sensory score)
		Water content	DGHS Manual 1 Page. 23 (2005)	60 % to 90 %
		Total Solids	DGHS Manual 1 Page. 23 (2005)	1 % to 40 %
		Total Fat	DGHS Manual 1 Page. 25 (2005)	1 % to 10 %

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	Milkshake	Total Protein (As N X 6.38)	DGHS Manual 1 Page. 44 (2005)	0.1 % to 6	5 %
		Total Ash	IS 1479 (Part 2): 1961 (2005)	0.1% to 2	2.0 %
		Total Carbohydrates	DGHS Manual 1 Page. 68 (2005)	1 % to 20	%
		Acidity (As Lactic Acid)	DGHS Manual 1 Page. 63 (2005)	0.01 % to	5.0 %
		pH (As Is Basis)	DGHS Manual 5 Page. 12 (2005)	0 to 14	
		Total Sugars	DGHS Manual 1 Page. 49 (2005)	1 % to 20	%
		Sucrose	DGHS Manual 1 Page. 49 (2005)	0.1 % to 1	15 %
		Energy	FAO Food and Nutrition Pap 77, (2003)	er 10 kcal/10 150 kcal/1	
K.	Cheese (All Varieties)	Moisture	DGHS Manual 1 Page. 40 (2005)	10 % to 1	00 %
		Total Fat	DGHS Manual 1 Page. 40 (2005)	20 % to 6	0 %
		Total Protein (As N X 6.38)	DGHS Manual 1 Page. 44 (2005)	0.1 To :	50 %
		Total Ash	IS 1479 (Part 2): 1961	0.1 % to 1	0 %

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	Cheese (All Varieties)	Total Carbohydrates	DGHS Manual 1 Page. 68 (2005)	1 % to 20 %
		pH (As Is Basis)	DGHS Manual 5 Page. 44 (2005)	1 to 14
		Acidity (As Lactic Acid)	DGHS Manual 1 Page. 63 (2005)	0.01 % to 5 %
		Salt	IS 2785: 1979	0 to 5 %
L.	Skimmed Milk Powder, Whey Powder,	Saturated Fatty Acid	CQAL/INST/STP-07 AOAC (19 th Edition) 996.06: 2012 Issue. 04, Dated. 20-08-	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Condensed Milk, Sweetened Condensed Milk,	Mono Unsaturated Fatty Acid	2012 Issue. 04, Dated. 20-08- 2014	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Butter, Butter Oil, Dairy Whitener, Ghee,	Poly Unsaturated Fatty Acid		0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Eggless Mayonnaise, Seasoned Cheese Blend, Milk,	Total Trans Fatty Acid	CQAL/INST/STP-36 AOAC (19 th Edition) 996.06: 2012 Issue. 04, Dated. 20-08-2014	0.03 g/100g to 20 g/100g LOD: 0.01 g/100g
	Milkshake, Cheese	Cholesterol	CQAL/INST/STP-24 AOAC (19 th Edition) 994.10: 2012 Issue. 04, Dated. 20-08-2014	0.001 g/100g to 1 g/100g LOD: 0.001 g/100g
		Sodium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	2.0 μg/kg to 1000 μg/kg LOD: 0.5 μg/kg

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	Skimmed Milk Powder, Whey Powder,	Calcium	CQAL/INST/STP-41 AOAC (19 th Edition) 999.10: 2012	2.0 mg/kg to 1000 mg/kg LOD: 1 mg/kg
	Condensed Milk, Sweetened Condensed Milk,	Iron	Issue. 04, Dated. 20-08-2014	2.0 mg/kg to 1000 mg/kg LOD: 1 mg/kg
	Butter, Butter Oil, Dairy	Potassium		0.5 mg/kg to 1000 mg/kg LOD: 0.2 mg/kg
	Whitener, Ghee, Eggless Mayonnaise, Seasoned Cheese	Magnesium		2.0 mg/kg to 1000 mg/kg LOD: 0.5 mg/kg
	Blend, Milk, Milkshake,	Phosphorus		2.0 mg/kg to 1000 mg/kg LOD: 0.5 mg/kg
	Cheese	Zinc		1.0 mg/kg to 1000 mg/kg LOD: 0.6 mg/kg
		Copper		0.8 mg/kg to 1000 mg/kg LOD: 0.6 mg/kg
		Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10:	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
		Tin	2012 Issue. 04, Dated. 20-08- 2014	1.2 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
		Cadmium		0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
		Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.1 mg/kg to 10 mg/kg LOD: 0.04 mg/kg

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	Skimmed Milk Powder, Whey Powder, Condensed Milk, Sweetened	Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.8 mg/kg to 10 mg/kg LOD: 0.6 mg/kg
	Condensed Milk, Butter, Butter Oil, Dairy	Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	1 µg/kg to 300 µg/kg
	Whitener, Ghee, Eggless Mayonnaise,	Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	5 μg/kg to 300 μg/kg
	Seasoned Cheese Blend, Milk, Milkshake, Cheese	Inorganic Bromide	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	15 μg/kg to 300 μg/kg
10.	Starch And Starch	1 Products		
А.	Dextrose Mono Hydrate	Solubility	IS 874: 1992	Qualitative
		Loss on Drying	IS 874: 1992	1 % to 15.0 %
		Dextrose Equivalent On Dry Basis	IS 873: 1974	80 % to 100 %
		Acidity, (ml Of 0.1 NaOH Required To Neutralize 0.5g Material)	IS 874: 1992	0.05 ml to 0.5 ml
		Sulphur Dioxide	IS 874: 1992	20 mg/l to 100 mg/l
		Sulphated Ash	IS 15279: 2003	0.01 % to 1 %

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B.	Liquid Glucose	Total Solids	DGHS Manual 4, Page. 51 (2005), IS 873: 1974	80 % to 86 %
		Ash,on Dry Basis	IS 873: 1974	0.01 % to 0.3 %
		pH Of 50 % Solution At 25 ° C	IS 4706 (Part 2): 1978	1 to 14
		Dextrose Equivalent on Dry Basis	IS 873: 1974	35 to 44 %
C.	Maize Starch	Solubility	IS 874: 1992	Qualitative
		Moisture	IS 4706 (Part 2): 1978	0.01 % to 20.0 %
		Total Ash on Dry Basis	IS 4706 (Part 2): 1978	0.01 % to 5.0 %
		Acid Insoluble Ash on Dry Basis	IS 4706 (Part 2): 1978	% to 5.0 %
		Alcoholic Acidity, (ml of 1N NaOH Required to Neutralize 100g Material, On Dry Basis)	IS 1009: 1979	0.1 ml to 5.0ml
D.	High Maltose Corn Syrup	Lovibond Colour	IS 873: 1974	(0.1 to 90) Y (0.1 to 90) B (0.1 to 90) R
		Dextrose Equivalent	IS 873: 1974	40 % to 47 %
		Total Solids	IS 873: 1974	70 % to 80 %
		Total Ash	IS 4706 (Part 2): 1978	0.01 % to 0.3 %
		рН	IS 4706 (Part 2): 1978	1 to 14
		Acid Insoluble Ash	IS 6287: 1985	0.01 % to 0.03 %

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	High Maltose	Sulphur Dioxide	IS 4706 (Part 2): 1978	1 mg/l to 200 mg/l
	Corn Syrup	Starch Test	ITC-FBD/AOP/CF/RM-02/07 Issue. 04 Dated. 11-10-2010	Qualitative
E.	Malto Dextrin	Moisture	DGHS Manual 4, Page. 36 (2005)	1 % to 5 %
		Reducing Sugar (As Dextrose Equivalent)	IS 873: 1974	18 % to 25 %
		pH of 10 % Aqueous	IS 4706 (Part 2): 1978	1 to 14
F.	Crystal Gum	Moisture (Loss On Drying)	IS 4706 (Part 2): 1978	1 % to 14 %
		pH of 20 % Aqueous Solution	IS 4706 (Part 2): 1978	1 to 14
G.	Elastigel	Loss on Drying	IS 4706 (Part 2): 1978	1 % to 15 %
		pH of 20 % Solution	IS 4706 (Part 2): 1978	1 to 14
Н.	Gum Arabic	Moisture Content	IS 6795: 2007	1 % to 15 %
		pH of 20 % Aqueous Extract	IS 15557: 2005	1 to 14
I.	Rice Starch	Moisture	DGHS Manual 3, Page. 17 (2005)	1 % to 15 %
		Total Ash	DGHS Manual 3, Page. 17 (2005)	0.1 % to 1 %
		Acid Insoluble Ash	DGHS Manual 3, Page. 18 (2005), IS 4706 (Part 2): 1978	0.01 % to 0.2 %

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J.	Pectin Dextrose	Loss on Drying	IS 15929: 2012	0.1 % to 10 %
	Monohydrate, Liquid Glucose, Maize Starch, High Maltose Corn Syrup, Maltodextrin, Crystal Gum, Elastigel, Gum Arabic, Rice Starch, Pectin	Acid Insoluble Ash	IS 15929: 2012	0.01 % to 2.5 %
11.	Food Additives &	Preservatives		
А.	Iodised Salt As NaCl	Moisture	IS 7224: 2006	0.05 % to 2.0 %
		Water Insoluble Matter	IS 7224: 2006	0.05 % to 1.5 %
		Chloride Content (Purity)	IS 7224: 2006	80 % to 100 %
		Iodine	IS 7224: 2006	1 mg/kg to 50 mg/kg
		Calcium	IS 7224: 2006	0.05 % to 0.25 %
		Magnesium	IS 7224: 2006	0.05 % to 0.25 %
		Sulphate	IS 7224: 2006	0.02 % to 0.7 %
B.	Edible Common	Moisture	IS 253: 1985/ IS 7224: 2006	0.05 % to 1.5 %
	Salt as NaCl	Chloride Content (As NaCl) on Dry Basis	IS 253: 1985/ IS 7224: 2006	95.0 % to 105.0 %

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	Edible Common	Matter Insoluble In Water	IS 253: 1985/ IS 7224: 2006	0.1 % to 3	3.0 %	
	Salt as NaCl	Matter Souble In Water Other Than NaCl, Dry Basis	IS 253: 1985/ IS 7224: 2006	0.1 % to :	5.0 %	
C.	Emulsifiers					
a.	Finamul 9750	Iodine Value	IS 548 (Part 1): 1964	0.1 to 5.0		
		Acid Value	Food Chemical Codex, (8 th Edition)	(20 mg to KOH)/g	80 mg of	
		Moisture	IS 548 (Part 1): 1964	1.0 % to 3	10.0 %	
		Melting Point	IS 548 (Part 1): 1964	40.0 °C to	o 60.0 °C	

		Melting Point	IS 548 (Part 1): 1964	40.0 °C to 60.0 °C
b.	Finamul 90	Saponification Value	IS 548 (Part 1): 1964	140 to 180
		Iodine Value	IS 548 (Part 1): 1964	0.1 to 5.0
		Acid Value	Food Chemical Codex, (8 th Edition)	(0.1 mg to 10.0 mg) of KOH/g
		Melting Point	IS 548 (Part 1): 1964	60.0 °C to 80.0 °C
c.	Sodium Stearoyl Lactylate	Solubility in Ethanol, Hot Oil, Dispersible In Hot Water	Food Chemical Codex, (8 th Edition)	Qualitative
		Acid Value	Food Chemical Codex, (8 th Edition)	50 mg to 90 mg of KOH/g
		Ester Value	Food Chemical Codex, (8 th Edition)	100 to 200

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d.	Lecithin	Identification Test	Food Chemical Codex, (8 th Edition)	Qualitative
		Purity, As Acetone Insoluble Residue	IS 5055: 1996	30 % to 80 %
		Acid Value	IS 5055: 1996	0.1 mg to 50 mg KOH/g
		Moisture	IS 5055: 1996	0.01 % to 5.0 %
		Hexane Insoluble Matter	IS 5055: 1996	0.01 % to 0.5 %
		Peroxide Value	Food Chemical Codex, (8 th Edition)	1 meq/kg to 25 meq/kg
e.	Datem	Acid Value	IS 548 (Part 1): 1964	60 to 100
		Sponification Value	IS 548 (Part 1): 1964	450 to 550
		Iodine Value	IS 548 (Part 1): 1964	20 to 80
f.	Pectin	Galacturonic Acid	IS 15929: 2012	50 to 80
		Degree Of Esterification	IS 15929: 2012	50 to 75
		SAG Value	ITC/FBD/AOP/CFRM-52/04 Issue. 05 Issue Dated. 11-08-2014	150
g.	Soya Lecithin Powder	Purity	IS 5055: 1996	90 to 100
h.	Vamipol	Free Acetic Acid	IS 15929: 2012	0 to 1.0

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i.	Glyceryl Mono Stearate	Moisture Content	IS 2362: 1963	0.1 % to 2 %
	Stratat	Melting Point	IS 9953: 1981	54 to 60
		Acid Value	IS 9953: 1981	(0.1 mg to 6 mg KOH)/g
		Monostearate Content	IS 9953: 1981	40 % to 46 %
		pH of 3 % W/W Emulsion In Water	IS 15557: 2005	1 to 14
D.	Synthetic food Colours in Biscuits	Tartrazine	CQAL/INST/STP-04 Issue. 04, Dated. 20-08-2014	30 mg/kg to 300 mg/kg LOD: 10 mg/kg
	Hard Boiled Confectionery, Toffees,	Indigocarmine		30 mg/kg to 300 mg/kg LOD: 10 mg/kg
	Lozenges Potato Chips Namkeens	Ponceau 4r		30 mg/kg to 300 mg/kg LOD: 10 mg/kg
	Ready To Eat Products By Products	Sunset Yellow		30 mg/kg to 300 mg/kg LOD: 10 mg/kg
	Coffee, Cocoa And By Products Milk And Dairy	Carmoisine		150 mg/kg to 1500 mg/kg LOD: 50mg/kg
	Products Spices And Condiments	Fast Green		30 mg/kg to 300 mg/kg LOD: 10 mg/kg
	Fruit Juices And Concentrates	Brilliant Blue		30 mg/kg to 300 mg/kg LOD: 10 mg/kg
		Erythrosine		150 mg/kg to 1500 mg/kg LOD: 50mg/kg

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E.	Artificial Sweeteners in Biscuits	Saccharin Sodium	CQAL/INST/STP-58 Issue. 04, Dated. 20-08-2014	10 mg/kg to 10000 mg/kg LOD: 10 mg/kg
	Confectionery Ready to Eat Juices	Aspartame (Methylester)		10 mg/kg to 10000 mg/kg LOD: 10 mg/kg
	Chocolate Milk & Dairy Products	Acesulfame		10 mg/kg to 10000 mg/kg LOD: 10 mg/kg
	Troutes	Sucralose	CQAL/INST/STP-32 Issue. 04, Dated. 20-08-2014	500 mg/kg LOD:100 mg/kg
F.	Biscuits Hard Boiled Confectionery,	Agaric Acid	CQAL/INST/STP-60 Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Toffees, Lozenges Potato Chips	Hydrocyanic Acid	CQAL/INST/STP-61 Issue. 04, Dated. 20-08-2014	1 μg/kg to 300 μg/kg
	Namkeens Ready To Eat Products	Hypericine	CQAL/INST/STP-44 Issue. 04, Dated. 20-08-2014	10 μg/kg to 300 μg/kg
	By Products Coffee, Cocoa And By Products Milk And Dairy Products Spices And Condiments	Saffrole	CQAL/INST/STP-45 Issue. 04, Dated. 20-08-2014	10 μg/kg to 300 μg/kg
	Fruit Juices And Concentrates			

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G.	Food Products includes Bakery &	Glutamic Acid	CQAL/INST/STP-47 Issue. 04, Dated. 20-08-2014	40 mg/kg to 10000 mg/kg LOD: 4 mg/kg
	Confectionery products Potato Chips Namkeens Instant mixes Fruit & Vegetable products Ready to eat products Cereals, pulses and its products Coffee, Cocoa and products Milk and Dairy Products Spices and Condiments Fruit Juices and Concentrates	Melamine	CQAL/INST/STP-21 Issue. 04, Dated. 20-08-2014	1 mg/kg to 100 mg/kg LOD: 0.3 mg/kg
12.	Food Grade Chem	nicals		
A.	Sodium Meta Bisulphite	Purity As SO ₂	IS 4752: 1994	40 % to 100 %
	Distribute	Water Insoluble Matter	IS 4752: 1994	0.01 % to 0.2 %
		pH Of 5 % Aq. Solution	IS 2124: 2000	1 to 14
		Thiosulphate	IS 4751: 1994	Qualitative

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B.	Sodium Disarkanata	Purity, As NaHCO ₃	IS 2124: 2000	80 % to 105.0 %
	Bicarbonate	Matter Insoluble In Water On Dry Basis	IS 2124: 2000	0.01 % to 0.5 %
		pH Of 1 % Aqueous Solution	IS 2124: 2000	1 to 14
C.	Ammonium	Ammonium Bicarbonate	IS 2697: 1976	80 % to 105 %
	Bicarbonate	Non-Volatile Matter	Food Chemical Codex, (8 th Edition)	0.01 % to 0.5 %
D.	Sodium Acid Pyro Phosphate	Identification Test	Food Chemical Codex, (8 th Edition)	Qualitative
		Solubility In Water	Food Chemical Codex, (8 th Edition)	Qualitative (Soluble /Insoluble)
		Assay	Food Chemical Codex, (8 th Edition)	80 % to 105 %
		Water Insoluble Matter	IS 4752: 1994	0.01 % to 3 %
		pH Of 1 % Solution	IS 15557: 2005	1.0 to 14
E.	Lactic Acid	Assay As C ₃ H ₆ O ₃ By Mass	IS 9971: 1981	80 % to 100 %
		Sulphated Ash	IS 9971: 1981	0.01 % to 0.5 %
F.	Citric Acid	Moisture	IS 2362: 1963	0.01 % to 15.0 %
		Purity As Citric Acid On Dry Basis	IS 13186: 1991	80 % to 105 %

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	Citric Acid	Sulphated Ash	IS 13186: 1991	0.01 % to 0.2 %
G.	Malic Acid	Moisture	IS 14124: 1994	0.01 to 1.0
		Purity, As C4H6O6 On Dry Basis	IS 14124: 1994	80 % to 105 %
		Residue on Ignition on Dry Basis	IS 14124: 1994	0.01 % to 0.5 %
		Water Insoluble Matter	IS 14124: 1994	0.01 % to 0.5 %
H.	Propylene Glycol	Sulphated Ash On Dry Basis	IS 13702: 1993	0.01 % to 0.2 %
		Moisture	IS 2362: 1993	0.05 % to 0.5 %
I.	Sodium Citrate	Purity As Sodium Citrate On Dry Basis	IS 5058: 1996	99 % to 100 %
		Moisture Content	IS 5058: 1996	10 % to 15 %
J.	Stearic Acid	Saponification Value	IS 548 (Part 1): 1964	207 to 212
		Acid Value	IS 548 (Part 1): 1964	100 mg to 500 mg KOH/g
		Iodine Value	IS 548 (Part 1): 1964	1 to 3
		Mineral Acidity	IS 1675: 1971	Qualitative
		Lovibond Colour	IS 548 (Part 1): 1964	(0.1 to 90)Y (0.1 to 90)B (0.1 to 90)R
K.	Butylated Hydroxy Anisole (Bha)	Sulphated Ash	IS 5343: 1996	0.01 % to 0.05 %

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L.	Calcium Carbonate	Identification – Calcium Appendix III A	Food Chemical Codex (8 th Edition)	Qualitativ	ze
		Loss On Drying	Food Chemical Codex (8 th Edition)	0.01 % to	10.0 %
		Assay	Food Chemical Codex (8 th Edition)	80 to 100	.0 %
		Acid Insoluble Substances (On Dry Basis)	Food Chemical Codex (8 th Edition)	0.01 % to	1.0 %
М.	Sodium Carbonate	Identification –Sodium & Carbonate Appendix Iii A	Food Chemical Codex (8 th Edition)	Qualitativ	re
		Loss On Drying	Food Chemical Codex (8 th Edition)	0.01 % to	10.0 %
		Assay	Food Chemical Codex (8 th Edition)	80 to 100	.0 %
		pH (1 % Solution)	Food Chemical Codex (8 th Edition)	1 to 14	
N.	Potassium Carbonate	Identification - Potassium & Carbonate Appendix III A	Food Chemical Codex (8 th Edition)	Qualitativ	re
		Loss On Drying	Food Chemical Codex (8 th Edition)	0.01 % to	10.0 %
		Assay	Food Chemical Codex (8 th Edition)	80 to 100	0 %

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	Potassium Carbonate	pH (1 % Solution)	Food Chemical Codex (8 th Edition)	1 to 14	
		Insoluble Substances	Food Chemical Codex (8 th Edition)	0.01 % to	5.0 %
0.	Di Sodium Phosphate	Identification- Potassium & Sodium Appendix Iii A	Food Chemical Codex (8 th Edition)	Qualitativ	e
		Loss On Drying	Food Chemical Codex (8 th Edition) IS 567: 1993	0.01 % to	10.0 %
		Assay	Food Chemical Codex (8 th Edition) IS 567: 1993	80 % to 1	00.0 %
		pH (1 % Solution)	Food Chemical Codex (8 th Edition)	1 to 14	
		Insoluble Substances	Food Chemical Codex (8 th Edition)	0.01 % to	5.0 %
Р.	Tetra Sodium Pyrophosphate	Identification –Sodium Appendix Iiia	Food Chemical Codex (8 th Edition)	Qualitativ	e
		Loss On Ignition	Food Chemical Codex (8 th Edition)	0.01 % to	10.0 %
		Assay	Food Chemical Codex (8 th Edition)	80 to 100	0 %
		pH (1 % Solution)	Food Chemical Codex (8 th Edition)	1 to 14	

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Q.	Sodium Hexa Meta Phosphate	Identification – Sodium Appendix III A	Food Chemical Codex (8 th Edition)	Qualitativ	re
		Loss On Drying	Food Chemical Codex (8 th Edition)	0.01 % to	10.0 %
		Assay	Food Chemical Codex (8 th Edition)	20 % to 8	0 %
		pH (1 % Solution)	Food Chemical Codex (8 th Edition)	1 to 14	
R.	Sodium Acetate	Moisture Content By KF	IS 2362: 1993	0.1 % to 2	2 %
		Assay As Acetic Acid	Food Chemical Codex (8 th Edition)	30 % to 5	0 %
		Assay As Sodium Acetate	Food Chemical Codex (8 th Edition)	50 % to 7	0 %
S.	Yeast Extract Powder	Moisture Content By KF	IS 2362: 1993	1 % to 7 9	%
	rowuer	Total Nitrogen	IS 7219: 1973	1 % to 15	%
		Salt As NaCl	IS 1797: 1985	% to 50 %	0
		pH Of Aqueous Extract	IS 4706 (Part 2): 1978	1 to 14	
Т.	Ribotide	Moisture Content	Food Chemical Codex (8 th Edition)	10 % to 5	0 %
		pH Of 1:20 Solution	Food Chemical Codex (8 th Edition)	5 to 10	

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U.	Salt, Emulsifiers, Food Grade Chemicals	Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10:	: LOD: 0.3	g to 50000 mg/kg mg/kg
	Chemicais	Copper	2012 Issue. 04, Dated. 20-08 2014		g to 50000 mg/kg mg/kg
		Tin		1.2 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg
		Zinc	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-	: LOD: 0.6	g to 50000 mg/kg mg/kg
		Cadmium	2012 Issue. 04, Dated. 20-08 2014		g to 50000 mg/kg mg/kg
		Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014		g to 10 mg/kg mg/kg
		Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08 2014	: LOD: 0.6	g to 10 mg/kg mg/kg
13.	Food Colours				
А.	Caramel	Soluble In Water	IS 4467: 1996	Qualitativ	ve
		Solids Content	IS 4467: 1996	40 % to 7	5 %
		Colour Intensity	IS 4467: 1996	0.01 % to	1.0 %
		рН	IS 15557: 2005	1 to 14.0	

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
В.	Ponceau 4R , Sunset Yellow,	Total Dye Content	IS 1697: 1994	75 % to 100 %
	Tartrazine, Erythrosine,	Loss On Drying at 135°C	IS 1699: 1995	0.1 % to 10.0 %
	Carmoisine, Brilliant Blue, Indigo Carmine	Water Insoluble In Matter	IS 1699: 1995	0.001 % to 0.5 %
C.	Annatto Powder	Identification	IS 2557: 1994	Qualitative
		Annatto Extract In Water, Expressed As Norbixin	IS 2557: 1994	0.1 % to 2.0 %
D.	Liquid Flavors	Specific Gravity At 25°C	Food Chemical Codex (8 th Edition)	0.8 to 1.2
		Refractive Index At 25°C	Food Chemical Codex (8 th Edition)	1.3 to 1.9
		Specific Gravity At 20°C	Food Chemical Codex (8 th Edition)	0.1 to 1.3
		Refractive Index At 20°C	Food Chemical Codex (8 th Edition)	1.3 to 1.9
E.	Solid Flavour - Menthol	Melting Point	Food Chemical Codex (8 th Edition)	40 °C to 50 °C
F.	Biscuits Hard Boiled	Coumarin	CQAL/INST/STP-59 Issue. 04, Dated. 20-08-2014	Qualitative
	Confectionery, Toffees,	Dihydrocoumarin	···· , ····· · · · · · · · · · · · · ·	Qualitative
	Lozenges Potato Chips	Tonkabean(Dipteryl Adorat)		Qualitative

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	Namkeens Ready To Eat	Alpha-Asarone	CQAL/INST/STP-59 Issue. 04, Dated. 20-08-2014	Qualitative
	Ready To Eat Products By Products	Estragole	100 u c. 01, <i>Dute</i> u. 20 00 2011	Qualitative
	Coffee, Cocoa And By Products	Ethyl Methyl Ketone		Qualitative
	Milk And Dairy Products	Ethyl-3 Phenylglycidate		Qualitative
	Spices And Condiments	P-Propylanisole	CQAL/INST/STP-59 Issue. 04, Dated. 20-08-2014	Qualitative
	Fruit Juices And Concentrates,	Methyl Beta-Naphthyl Ketone	issue. 04, Dated. 20-08-2014	Qualitative
	Flavors	Alpha And Beta - Thujone		Qualitative
		Saffrole & Isosaffrole		Qualitative
		Diethylene Glycol And Monoethyl Ether		Qualitative
14.	Honey And Honey	Products		
A.	Honey	Freedom From Foreign Matter	IS 4941: 1994	Qualitative
		Colour	IS 4941: 1994	Qualitative
		Fiehe's Test	IS 4941: 1994	Qualitative
		Optical Density At 660nm	IS 4941: 1994	0.1 to 0.5
		Moisture	IS 4941: 1994	1 % to 25 %
		Specific Gravity	IS 4941: 1994	1.10 to 1.70
		Total Reducing Sugars	IS 4941: 1994	50 % to 75 %
		8 8 8 8 8		

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Honey	Ash	IS 4941: 1994	0.1 % to 0.6 %
		Acidity (Expressed As Formic Acid)	IS 4941: 1994	0.05 % to 0.3 %
		Fructose/Glucose Ratio	IS 4941: 1994	0.9 to 1.4
		Sucrose	IS 4941: 1994	0.2 % to 8 %
15.	Spices And Condi	ments		
А.	Chilli Flakes	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	5.0 % to 20.0 %
		Total Ash On Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	1.0 % to 15.0 %
		Acid Insoluble Ash on Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to 2.0 %
		Seed Content	IS 1797: 1985	1 to 50 nos.
В.	Nutmeg	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	5.0 % to 15.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005)	0.1 % to 10.0 %
		Acid Insoluble Ash on Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to 1.0 %
		Volatile Oil Content on Dry Basis	DGHS Manual 10, Page. 14(2005), IS 1797: 1985	2.0 % to 10.0 %v/w

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	Nutmeg	Non-Volatile Ether Extract on Dry Basis	DGHS Manual 10, Page. 13 (2005), IS 1797: 1985	10.0 % to 40.0 %
		Crude Fibre	DGHS Manual 10, Page. 18 (2005), IS 1797:1985	5.0 % to 30.0 %
C.	Cinnamon	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 15.0 %
		Volatile Oil Content On Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.05 % to 2.0 %v/w
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	2.0 % to 10.0 %
		Acid Insoluble Ash on Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to 3.0 %
D.	Elaichi/	Flavour	IS 1907:1984	Qualitative
	Cardamom	Moisture	DGHS Manual 10, Page. 2 (2005, IS 1797: 1985	0.1 % to 20.0 %
		Volatile Oil Content on Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.1 % to 5.0 %v/w
		Extraneous Matter In Seeds	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.01 % to 10 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	1.0 % to 20.0 %
E.	Masala Mix/ Curry Paste	Moisture	DGHS Manual 5, Page. 51 (2005)	10 % to 40 %

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Masala Mix/ Curry Paste	Total Soluble Solids	IS 5861: 1993	40 % to 75 %
	Curry Paste	Titratable Acidity	IS 11765: 1986	0.2 % to 2.0 %
		Salt As NaCl	IS 1797: 1985, DGHS Manual 5 Page. 8 (2005)	2.0 % to 15.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
		Water Activity	AOAC (19 th Edition) 978.18: 2012	0.1 to 1.0
F.	Export Sauces	Total Soluble Solids	IS 5861: 1993	1 % to 20 %
		Titratable Acidity	IS 11765: 1986	0.1 % to 2.0 %
		Salt As NaCl	IS 1797: 1985	0.2 % to 3.0 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 % to 14
G.	Chilli Whole	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	5.00 % to 16.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	4.00 % to 8.0 %
		Acid Insoluble Ash on Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to 2.0 %
		ASTA Color Value	ASTA Method 20.1	30 to 180

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H.	Pasta Saucemaker, Mix	Moisture	DGHS Manual 5 Page. 34 (2005)	1.0 % to 8.0 %
	IVIIX	Titratable Acidity	AOAC (19 th Edition) 935.57: 2012	0.1 % to 3.0 %
		Salt as NaCl	IS 1797: 1985	0.5 % to 25 %
		рН	DGHS Manual 5 Page. 12 (2005)	1.0 to 14
		Protein	IS 7219: 1973	0.1 % to 40.0 %
		Total Fat	DGHS Manual 6 Page. 39 (2005)	0.1 % to 50.0 %
		Carbohydrates	FAO Food and Nutrition Paper 77, (2003)	0.1 % to 90.0 %
		Total Ash	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	5 % to 25 %
		Energy Kcal/100g	FAO Food and Nutrition Paper 77, (2003)	40.0 kcal/100g to 80 kcal/100g
		Total Sugars	DGHS Manual 5 Page. 15 (2005)	0.01 % to 80.0 %
I.	Turmeric Whole	Moisture	DGHS Manual 10, Page. 2 (2005)	5.0 % to 16.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	4.0 % to 10.0 %

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	Turmeric Whole	Acid Insoluble Ash On Dry Basis	DGHS Manual 10, Page. 7 (2005)	0.01 % to	2.0 %
		Curcumin on Dry Basis	IS 10925: 1984, DGHS Manual 10, Page. 32 (2005)	1.0 % to 7	7.0 %
		Chromate Test	IS 3576: 1994	Qualitativ (Negative	re /Positive)
J.	Coriander Whole	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	5.0 % to 1	6.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	4.0 % to 8	3.0 %
		Acid Insoluble Ash on Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %
		Volatile Oil on Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.02 % to	0.8 %v/w
К.	Chilli Powder	Granulation / Particle Size: (Above 500 µ)	ITC-FBD/AOP/ST/FG-03/01 Issue. 03 Dated. 21-10-2013	1 % to 10	0.0 %
		Granulation / Particle Size: (500 to 250 µ)	ITC-FBD/AOP/ST/FG-03/01 Issue. 03 Dated. 21-10-2013	1 % to 10	0.0 %
		Granulation / Particle Size: (Below 250 µ)	ITC-FBD/AOP/ST/FG-03/01 Issue. 03 Dated. 21-10-2013	1 % to 10	0.0 %
		Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	5.0 % to 1	6.0 %

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	Chilli Powder	Total Ash On Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	4.0 % to 8	3.0 %		
		Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %		
		Crude Fibre, db	DGHS Manual 10, Page. 18 (2005), IS 1797: 1985	14.0 % to	36.0 %		
		Non-Volatile Ether Extract On Dry Basis	DGHS Manual 10, Page. 13 (2005), IS 1797: 1985	0.10 % to	26.0 %		
		ASTA Color Value	ASTA (METHOD 20.1)	30 to 180			
L.	Turmeric Powder	Granulation / Particle Size: (Above 500 µ)	ITC-FBD/AOP/ST/FG-04/01 Issue. 03 Dated. 21-10-2013	1 1 % to 10	0.0 %		
		Granulation / Particle Size: (Below 118 µ)	ITC-FBD/AOP/ST/FG-04/01 Issue. 03 Dated. 21-10-2013	1 1 % to 10	0.0 %		
		Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	5.0 % to 1	16.0 %		
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	4.0 % to 1	10.0 %		
		Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %		
		Starch on Dry Basis	IS 4706 (Part 2): 1978	40.0 % to	70.0 %		
		Curcumin on Dry Basis	IS 10925: 1984, DGHS Manual 10, Page. 32 (2005)	1.0 % to 7	7.0 %		

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	Turmeric Powder	Chromate Test (Qualitative)	IS 3576: 1994	Qualitative (Negative/Positive)
М.	Coriander Powder	Granulation / Particle Size: (Above 500 µ)	ITC-FBD/AOP/ST/FG-05/01 Issue. 03 Dated. 21-10-2013	1 % to 100.0 %
		Granulation / Particle Size: (500 To 250 μ)	ITC-FBD/AOP/ST/FG-05/01 Issue. 03 Dated. 21-10-2013	1 % to 100.0 %
		Granulation / Particle Size: (Below 250 µ)	ITC-FBD/AOP/ST/FG-05/01 Issue. 03 Dated. 21-10-2013	1 % to 100.0 %
		Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	5.0 % to 16.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	4.0 % to 8.0 %
		Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to 2.0 %
		Volatile Oil on Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.02 % to 0.8 %v/w
N.	Blended Spices	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	1.0 % to 12.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	2.0 % to 12.0 %
		Acid Insoluble Ash (In Dilute HCl) on Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to 2.0 %

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	Blended Spices	Non Volatile Ether Extract On Dry Basis	DGHS Manual 10, Page. 13 (2005), IS 1797: 1985	0.10 % to	26.0 %
		Crude Fibre on Dry Basis	DGHS Manual 10, Page. 18 (2005), IS 1797: 1985	5.0 % to 3	30.0 %
		Salt As NaCl, (As NaCl) On Dry Basis	IS 1797: 1985	0.1 % to 2	20.0 %
		Granulation / Particle Size: (Above 500 µ)	ITC-FBD/AOP/ST/FG-12/09 Issue. 01 Dated. 21-10-2013	1 % to 10	0.0 %
		Granulation / Particle Size: (500 To 250 μ)	ITC-FBD/AOP/ST/FG-12/09 Issue. 01 Dated. 21-10-2013	1 % to 10	0.0 %
		Fat Content	DGHS Manual 10, Page. 13 (2005), IS 1797: 1985	10 % to 5	0 %
		Protein (N x 6.25)	IS 7219: 1973	1 % to 20	%
		Carbohydrates	FAO Food and Nutrition Pape 77, (2003)	er 0.1% to 9	90.0 %
		Energy Kcal/100g	FAO Food and Nutrition Pape 77, (2003)	er (40.0 kca	l to 80 kcal)/100g
		Total Sugars	DGHS Manual 5	0.01 % to	80.0 %
0.	Fenugreek - Whole	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20.0 %
		Total Ash Db	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	0.5 to 8.0	

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	Fenugreek - Whole	Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %
Р.	Dehydrated Curry Leaves	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	0.1 % to	10.0 %
		Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %
		Test For Peroxidase	Lab Manual 5-DGHS	Qualitativ (Positive/	ve 'Negative)
Q.	Garlic Powder	Moisture by Karl Fischer	IS 2362: 1993	1 % to 10	0%
		Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	% to 10.0	0%
		Acid Insoluble Ash (In Dilute Hcl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %
		Test For Peroxidase	Lab Manual 5 –DGHS	Qualitati	ve
R.	Compounded Asafoetida	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20.0 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	0.1 % to	10.0 %

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	Compounded Asafoetida	Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %	
		Alcoholic Extract	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.1 % to 3	50.0 %	
S.	Black Pepper- Whole	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20.0 %	
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	2.0 to 12.	0 %	
		Acid Insoluble Ash (In Dilute HCl) on Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %	
		Volatile Oil, On Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.1 % to :	5.0 %v/w	
		Non Volatile Ether Extract, On Dry Basis	DGHS Manual 10, Page. 13 (2005), IS 1797: 1985	0.10 % to	30.0 %	
Т.	Ginger Powder	Moisture by Karl Fischer	IS 2362: 1993	0.1% to 1	0 %	
		Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20.0 %	
		Total Ash Db	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	2.0 % to 1	2.0 %	
		Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %	
		Calcium as CaO	DGHS Manual 10, Page. 10, IS 1797: 1985	, 0.01 % to	10.0 %	

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	Ginger Powder	Water Soluble Ash on Dry Basis	IS 1797: 1985	0.01 % to	10.0 %
		Volatile Oil on Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.1 % to 2	2.0 %v/w
		Cold Water Soluble Extract on Dry Basis	DGHS Manual 10, Page. 8, IS 1797: 1985	1 % to 80	.0 %
		Alcoholic Extract	DGHS Manual 10, Page. 9, IS 1797: 1985	1 % to 80	.0 %
U.	Whole Black Mustard	Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20.0 %
		Total Ash Db	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	2.0 % to	12.0 %
		Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %
		Volatile Oil on Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.02 % to	0.8 %v/w
		Non Volatile Ether Extract On Dry Basis	DGHS Manual 10, Page. 13 (2005), IS 1797: 1985	0.10 % to	30.0 %
V.	Cumin Whole	Extraneous Matter	IS 1797: 1985	0.1 % to	10.0 %
		Moisture	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 2	20 %
		Total Ash on Dry Basis	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	2.0 % to	12.0 %

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	Cumin Whole	Acid Insoluble Ash (In Dilute HCl) On Dry Basis	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to	2.0 %
		Volatile Oil on Dry Basis	DGHS Manual 10, Page. 14 (2005), IS 1797: 1985	0.02 % to	0.8 %v/w
		Non Volatile Ether Extract On Dry Basis	DGHS Manual 10, Page. 13 (2005), IS 1797: 1985	0.10 % to	30.0 %
W.	Seasoning/ Masala Mix	Moisture Content by KF	IS 2362: 1993	1 to 20	
		Moisture By Halogen Moisture Analyser	ITC-FBD/AOP/ST/FG-09/02 Issue. 01 Dated. 22-11-2013	0.5 % to 1	12 %
		Colour Values – L, A, B	ITC-FBD/AOP/SF/RM-03/03 Issue. 02, Dated. 25-05-2010	(-)10 to 5	0
		Salt as NaCl Content By Autotitrator	IS 1797: 1985, DGHS Manual 5, Page. 51 (2005)	0.1 % to 4	40 %
		Acidity	AOAC (19 th Edition) 935.57: 2012	0.01 % to	10 %
Х.	Onion Powder	Moisture Content by Toluene Distillation	IS 4452: 1967	1 % to 6 9	%
		Moisture Content by KF	IS 2362: 1993	1 % to 6 9	2/0
		Total Ash	IS 4452: 1967	1 % to 6 9	2/0
		Acid Insoluble Ash	IS 4452: 1967	0.01 % to	1.0 %

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Y.	Paprika Oleoresin	Moisture Content	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	0.1 % to 1.0 %
		Colour Value	IS 13663: 1993	30,000 to 2,00000
Z.	Clove Leaf Oil	Refractive Index	AOAC (19 th Edition) 921.08: 2012	1.3 to 1.9
Aa.	Cassia Oil	Refractive Index	AOAC (19 th Edition) 921.08: 2012	1.3 to 1.9
		Specific Gravity	AOAC (19 th Edition) 920.13: 2012, Food Chemical Codex (8 th Edition)	1 to 1.5
		Optical Rotation	Food Chemical Codex (8 th Edition)	(-)0.001 to 1.1
Ab.	Amchur Powder	Moisture Content	IS 2362: 1993	1 % to 10 %
		Moisture Content	DGHS Manual 10, Page. 2 (2005), IS 1797: 1985	1 % to 10 %
		Total Ash	DGHS Manual 10, Page. 5 (2005), IS 1797: 1985	1 % to 10 %
		Acid Insoluble Ash	DGHS Manual 10, Page. 7 (2005), IS 1797: 1985	0.01 % to 2.5 %
		Salt as NaCl	IS 1797: 1985	1 % to 10 %
		Acidity	IS 1797: 1985	1 % to 50 %

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	Amchur Powder	Crude Fiber	DGHS Manual 10, Page. 18 (2005), IS 1797: 1985	1 % to 30	%
16.	Sugar And By Pro	ducts			
А.	Refined Sugar, Plantation White Sugar	Moisture	DGHS Manual 4, Page. 36 (2005)	0.02 % to	0.2 %
		Sucrose	DGHS Manual 1, Page. 37 (2005)	85 % to 1	00 %
		Sucrose by Polarimetry	DGHS Manual 4, Page. 38 (2005)	85 % to 1	00 %
		Sulphur Dioxide	IS 4706 (Part 2): 1978	1 mg/l to	200 mg/l
		Water Insoluble In Matter	IS 15279: 2003	0.01 % to	5.0 %
		Color	IS 15279: 2003	1 to 200	
		Total Ash	DGHS Manual 4, Page. 35 (2005)	0.01 % to	0.3 %
		Acid Insoluble Ash	IS 6287: 1985	0.01 % to	0.03 %
		Sugar Profile			
		Fructose	CQAL/INST/STP-03 In house Method	0.5 g/100 LOD: 0.0	g to 100 g/100g
		Glucose	Issue. 04, Dated. 20-08-2014		5 g/100g
		Sucrose			
		Maltose			
		Lactose			

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17.	Nuts And Nut Pro	ducts			
А.	Cashew	Aroma	ASTM Method-E-1871-97- Reapproved 2004	Qualitativ	ze
		Taste	ASTM Method-E-1871-97- Reapproved 2004	Qualitativ	re
		Extraneous Vegetable Matter	DGHS Manual 5, Page. 50 (2005)	0.01 % to	10 %
		Moisture	DGHS Manual 5, Page. 34 (2005)	0.1 % to	0 %
		Acidity of Extracted Fat As Oleic Acid	IS 1011: 2002	0.1 % to :	5.0 %
В.	Almond	Moisture	DGHS Manual 5, Page. 34 (2005)	0.1 % to 1	10 %
		Acidity of Extracted Fat, As Oleic Acid	IS 1011: 2002	0.1 % to 2	3.0 %
		Extraneous Vegetable Matter	DGHS Manual 5, Page. 50 (2005)	0.01 % to	10 %
C.	Raisins	Moisture	DGHS Manual 5, Page. 34 (2005)	1 % to 25	, %
		Count/100g	ITC-FBD/AOP/BS/RM-40/(Issue. 03 Dated. 3-052011	1 to 1000	
		Sugared Raisins	ITC-FBD/AOP/BS/RM-40/0 Issue. 03 Dated. 3-052011	1 % to 25	%

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	Raisins	Damaged Raisins	ITC/FBD/AOP/BS/RM/40-03	1 % to 20 %
18.	Fruit & Fruit Proc	lucts		
А.	Orange Juice Powder	Ash on Dry Basis	DGHS Manual 5, Page. 51 (2005)	1.0 % to 10.0 %
		pH of 5 % Solution	DGHS Manual 5, Page. 12 (2005)	1.0 % to 14.0
		Dextrose Equivalent	IS 6287: 1985	10.0 % to 50.0 %
B.	Strawberry Juice Powder	Ash on Dry Basis	DGHS Manual 5, Page. 51 (2005)	1.0 % to 10.0 %
		pH of 1 % Solution	DGHS Manual 5, Page. 12 (2005)	1.0 to 14.0
C.	Jamun Juice, Orange Juice,	Flavor and Taste	ITC-FBD/AOP/SENSORY-08 Issue. 01 Dated. 23-09-2015,	Qualitative
	Pineapple Juice, Pink Guava Juice, Apple	Overall Sensory Evaluation (After Reconstitution)	ASTM E2139-05: 2011	Qualitative
	Juice, Mixed Fruit Juice, Mango Juice,	Moisture	DGHS Manual 5, Page. 11 (2005)	10 % to 95 %
	Amla Juice,	Total Fat	IS 1163: 1992	0.01 % to 1 %
	Pomegranate Juice, Cranberry	Protein (N x 6.25)	IS 7219: 1973	1 % to 80 %
	Juice, Dry Fruit Apple Juice	Total Ash	DGHS Manual 5, Page. 39 (2005)	0.1 % to 2 %

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	Jamun Juice, Orange Juice, Pineapple Juice,	Energy Kcal/100g	FAO Food and Nurition Paper 77, (2003)	10 kcal to 90 kcal/100g
	Pink Guava Juice, Apple Juice, Mixed	Carbohydrates	FAO Food and Nurition Paper 77, (2003)	1 % to 20 %
	Fruit Juice, Mango Juice, Amla Juice,	Total Soluble Solids	DGHS Manual 5, Page. 5 (2005)	0.1 % to 40 %
	Pomegranate Juice, Cranberry Juice, Dry Fruit Apple Juice	Total Sugars	DGHS Manual 5, Page. 16 (2005)	10 % to 50 %
D.	Orange Cells, Pomogranate Pulp, Jamun	Acidity	DGHS Manual 5, Page. 12 (2005)	0.1 % to 4 %
	Pulp, Amla Pulp, Litchi Pulp, Mixed Fruit	рН	DGHS Manual 5, Page. 12 (2005)	1 % to 14
	Concentrate, Pink Guava Pulp, Totapuri	Viscosity	ITC-FBD/AOP/Juices/FG- 01/08, Brookefield viscometer	10 % to 10000 cps
	Mango Pulp, Alphanso Mango	Specific Gravity	IS 2860: 1964	0.9 to 1.7
	Pulp, Pineapple Juice Concen- trate, Deionised	Vitamin C	DGHS Manual 5 Page. 19 (2005)	2 mg/100g to 80 mg/100
	Apple Juice Concentrate, Apple Juice Concentrate,	Colour Value – Hunter Lab	ITC-FBD/AOP/Juices/FG- 01/08	L = 1 units to 100 units a = 0.01 units to 100 unit b = 1 units to 100 units
	Orange Juice Concentrate	Total Soluble Solids	DGHS Manual 5, Page. 5 (2005)	5 % to 80 %

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	Orange Cells, Pomogranate	Acidity	DGHS Manual 5, Page. 12 (2005)	0.1 % to 4.0 %
	Pulp, Jamun Pulp, Amla Pulp, Litchi Pulp, Mixed Fruit	рН	DGHS Manual 5, Page. 12 (2005)	1 to 14
	Concentrate, Pink Guava Pulp, Totapuri	Viscosity	ITC-FBD/AOP/Juices/RM- 01/05, Brookfield viscometer	10 cps to 10000 cps
	Mango Pulp, Alphanso Mango	Specific Gravity	IS 2860: 1964	0.9 to 1.7
	Pulp, Pineapple Juice Concen- trate, Deionised	Colour Value-Hunter Lab	ITC-FBD/AOP/Juices/RM- 01/07	L= 1 to 100 units, a = 0.01 % to 100 units, b = 1 to 100 units
	Apple Juice Concentrate, Apple Juice	Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	1 μg/kg to 300 μg/kg
	Concentrate, Orange Juice Concentrate	Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	5 µg/kg to 300 µg/kg
		Inorganic Bromide	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	15 μ g/kg to 300 μ g/kg
		Oragnic Acids Tartaric Acid Citric Acid	CQAL/INST/STP-34 Issue. 04, Dated. 20-08-2014	0.003 g/100 g to 1 g/100 g LOD: 0.0005 g/100 g
		Malic Acid		
		Acetic Acid		
		Lactic Acid		

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		Fructose	CQAL/INST/STP-03 Issue. 04, Dated. 20-08-2014		g to 100 g/100g
		Glucose		LOD: 0.0	3 g/100g
		Sucrose			
		Maltose			
		Lactose			
E.	Fruit Juices And Concentrates	Vitamin K	CQAL/INST/STP-54 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	
		Vitamin B1	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	
		Vitamin B2	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	
		Vitamin B3	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	

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	Fruit Juices And Concentrates	Vitamin B5	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	0 0
		Vitamin B6	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	
		Folate	CQAL/INST/STP-53 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	
		Vitamin C	CQAL/INST/STP-52 Issue. 04, Dated. 20-08-2014	5 μg/g to LOD: 2.0	
		Vitamin A Carotene	CQAL/INST/STP-54 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	
		Vitamin E	CQAL/INST/STP-54 Issue. 04, Dated. 20-08-2014	2 μg/g to LOD: 0.5	
		Patulin	CQAL/INST/STP-84 Issue. 04, Dated. 20-08-2014		to 2500 μg/kg μg/kg
19.	Oil Seeds & By-Pro	oducts			
А.	Hydrogenated Vegetable Oil (Vanaspati),	Moisture	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to	0.5 %
	Bakery Shortening	Melting Point	DGHS Manual 2, Page. 20 (2005); IS 548 (Part 1): 1964	35°C to 5	0 °C
		Peroxide Value	IS 548 (Part 1): 1964	0.05 meq	/kg to 3.0 meq/kg
		Free Fatty Acid (As Oleic Acid)	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0.01 % to	0.5 %

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	Hydrogenated Vegetable Oil	Unsaponifiable Matter	DGHS Manual 2, Page. 25 (2005); IS 548 (Part 1): 1964	0.01 % to	2.0 %
	(Vanaspati), Bakery Shortening	Baudoin Test	IS 10633:1999	0.05 to 10	0.0
		Acid Value	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0.01 to 0.	5
		Oxidative Stability	AOCS cd-12b-92 (6 th Edition 2010	h): 5 h to 60	h
В.	Palm Oil	Moisture	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to	0.5 %
		Free Fatty Acid (As Oleic Acid)	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0.01 % to	0.5 %
		Melting Point (Open Tube Capillary Slip Method)	DGHS Manual 2, Page. 20 (2005); IS 548 (Part 1): 1964	35-50°C	
		Peroxide Value	IS 548 (Part 1): 1964	0.05-3.0 1	neq/kg
		Iodine Value	DGHS Manual 2, Page. 30 (2005), IS 548 (Part 1): 1964	30 to 70	
		Saponification Value	DGHS Manual 2, Page. 22 (2005), IS 548 (Part 1): 1964	160 to 25	0
		Unsaponifiable Matter	DGHS Manual 2, Page. 25 (2005), IS 548 (Part 1): 1964	0.01 % to	2.0 %

DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964

Acid Value

(0.01 mg to 0.5 mg) of KOH/g

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	Palm Oil	Mineral Oil	IS 548 (Part 2): 1976	Qualitativ (Presence	ve e/Absence)
		Oxidative Stability	AOCS (6 th Edition) cd-12b-9 2010	2: 5.0 h to 6	0.0 h
		Colour Value	IS 548 (Part 1): 1964	1 to 20	
		Refractive Index	IS 548 (Part I): 1964; DGHS Manual 2, Page. 6 (2005)	1.4 to 1.5	
		p-Anisidine Value	AOCS (6 th Edition) cd 18-90 2010	: 0.1 to 60	
		Test For Presence of Sesame Oil	IS 548 (Part 1): 1964	Qualitativ (Present/2	
		TBHQ by MBTH Method	ITC-FBD/AOP/BS/RM-54/1 Issue. 03 Dated. 3-05-2011	4 20 mg/l t	o 250 mg/l
C.	Palmolein Oil	Moisture	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to	0.5 %
		Free Fatty Acid (As Oleic Acid)	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0.01 % to	0.5 %
		Peroxide Value	IS 548 (Part 1): 1964	0.05 meq	/kg to 3.0 meq/kg
		Iodine Value	DGHS Manual 2, Page. 30 (2005), IS 548 (Part 1): 1964	30 to 70	

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	Palmolein Oil	Saponification Value	DGHS Manual 2, Page. 22 (2005); IS 548 (Part 1): 1964	160 to 25	0
		Unsaponifiable Matter	DGHS Manual 2, Page. 25 (2005); IS 548 (Part 1): 1964	0.01 % to	2.0 %
		Cloud Point	DGHS Manual 2, Page. 46 (2005), IS 548 (Part 1): 1964	5.0 °C to	20.0 °C
		Mineral Oil	IS 548 (Part 2): 1976; DGHS Manual 2, Page. 76	Qualitativ (Presence	/e /Absence)
		Refractive Index At 40°C	IS 548 (Part 2): 1976; DGHS Manual 2, Page. 6 (2005)	1.4 to 1.5	
		Phosphorus Content	IUPAC 2.421	3 mg/l to	25 mg/l
D.	Hydrogenated Coconut Oil	Acid Value	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0	o 0.5 mg of
		Mineral Oil	IS 548 (Part 2): 1976; DGHS Manual 2, Page. 76 (2005)	Qualitativ	/e
		Oxidative Stability	AOCS (6th Edition) cd-12b-9 2010	02: 5.0 to 60.	0
		Moisture	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to	0.5 %
		Melting Point	DGHS Manual 2, Page. 20 (2005); IS 548 (Part 1): 1964	35 °C to 5	50 °C

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Hydrogenated Coconut Oil	Peroxide Value	IS 548 (Part I): 1964	0.05 meq/kg to 3.0 meq/kg
	Coconut Oli	Free Fatty Acid (As Oleic Acid)	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0.01 % to 0.5 %
		Baudoin Test	IS 10633: 1999	0.05 to 10.0
E.	Vanaspati (Special HVO)	Unsaponifiable Matter	DGHS Manual 2, Page. 25 (2005); IS 548 (Part 1): 1964	0.01 % to 2.0 %
		Mineral Oil	IS 548 (Part 2): 1976; DGHS Manual 2, Page. 76 (2005)	Qualitative (Presence/Absence)
		Appearance	IS 10633: 1999	Qualitative
		Colour	IS 10633: 1999	Qualitative
		Moisture	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to 0.5 %
		Free Fatty Acid (As Oleic Acid)	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to 0.5 %
		Acid Value	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0.01 to 0.5
		Melting Point	DGHS Manual 2, Page. 20 (2005); IS 548 (Part 1): 1964	35 °C to 50 °C

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	Vanaspati (Special HVO)	Peroxide Value	IS 548 (Part 1): 1964	0.05 meq/kg to 3.0 meq/kg
		Solid Fat Content (35°C)	AOCS Cd 16b-81 (6 th Edition): 2010	1% to 20 %
		Solid Fat Content (40°C)	AOCS Cd 16b-81 (6 th Edition): 2010	1 % to 10 %
		Oxidative Stability	AOCS cd-12b-92 (6 th Edition): 2010	5 h to 60 h
F.	Hydrogenated	Colour	IS 10633: 1999	Qualitative
	Palm Kernel Oil	Odour and Taste	IS 10633: 1999	Qualitative
		Moisture Content	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to 0.5 %
		Melting Point	DGHS Manual 2, Page. 20 (2005); IS 548 (Part 1): 1964	33 °C to 36 °C
		Free Fatty Acid as Oleic Acid	IS 548 (Part 1): 1964; DGHS Manual 2, Page. 3 (2005)	0.01 % to 0.1 %
		Oxidative Stability	AOCS cd-12b-92 (6 th Edition): 2010	5 h to 60 h
		Peroxide Value	IS 548 (Part 1): 1964	0.05 meq/kg to 3.0 meq/kg
		Solid Fat Content (35°C)	AOCS Cd 16b-81 (6 th Edition): 2010	1 % to 20 %

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Hydrogenated Palm Kernel Oil	Solid Fat Content (40°C)	AOCS Cd 16b-81 (6 th Edition): 2010	1 % to 10 %
G.	Carnauba Wax	Peroxide Value	IS 548 (Part 1): 1964	0.5 to 1
		Acid Value	Food Chemical Codex V Ed	1.0 to 10
H.	Poly Glycerol Poly Ricinoleate	Melting Range	DGHS Manual 2, Page. 20 (2005); IS 548 (Part 1): 1964, USP 31- F/26 2008 Page. 1259	80 °C to 86 °C
		Acid Value	Food Chemical Codex, V Ed, IS 548 (Part 1): 1964	1 mg to 8 mg of KOH/g
		Iodine Value	DGHS Manual 2, Page. 30 (2005), IS 548 (Part 1): 1964	72 to 100
I.	Miglyol 812N	Moisture Content by Karl Fischer	IS 2362: 1993	0 to 1 %
		Acid Value	DGHS Manual 2, Page. 28 (2005); IS 548 (Part 1): 1964	0.05 to 1
		Refractive Index	IS 548 (Part 2): 1976; DGHS Manual 2, Page. 6 (2005)	1.31 to 1.9
		Specific Gravity	IS 548 (Part 2): 1976	0.1 to 1

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6. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
J.	Hydrogenated Vegetable Oil, Bakery Shortening,	Saturated Fatty Acid	CQAL/INST/STP-07 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 996.06:	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Palm Oil, Palmolein Oil, Hydrogenated	Mono Unsaturated Fatty Acid	2012	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Coconut Oil (HCNO), Special Hydrogenated	Poly Unsaturated Fatty Acid		0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g
	Vegetable Oil, Hydrogenated Palm Kernel Oil (HPKO), Carnauba		CQAL/INST/STP-36 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 996.06: 2012	0.03 g/100g to 25 g/100g LOD: 0.01 g/100g
	Wax, Poly Glycerol Poly Ricinoleate (PGPR), Miglyol 812N	Cholesterol	CQAL/INST/STP-24 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 994.10: 2012	0.001 g/100g to 1 g/100g LOD: 0.001 g/100g
K.	Oils And Fats	Tertiary Butyl Hydro Quinone (TBHQ)	CQAL/INST/STP-02 AOAC (19 th Edition) 983.15: 2012	10 mg/kg to 10000 mg/kg LOD: 3 mg/kg
		Butylated Hydroxy Anisole (BHA)	Issue. 04, Dated. 20-08-2014	
20.	Meat And Meat Pro	oducts		
A.	Dehydrated Chicken	Moisture	IS 5960 (Part 5): 1970	1.0 % to 8.0 %
	UnitKth	Total Fat	IS 5960 (Part 3): 1970, DGHS Manual 6 Page. 21 (2005)	1% to 25 %

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Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
Dehydrated Chicken	Rehydration Ratio	DGHS Manual 5, Page. 51 (2005)	1 to 4.0
	Protein (N x 6.25)	IS 5960 (Part 3): 1970, DGHS Manual 6 Page. 22 (2005)	20 % to 60 %
	Salt as NaCl	IS 5960 (Part 6 / Sec I): 1970	2 % to 10 %
	Free Fatty Acid Oleic Acid	IS 548 (Part 1): 1964	0.1 % to 1.0 %
	Bulk Density	IS 16033: 2012	0.10 g/cc to 1.0 g/cc
	Particle Size (L)	ITC-FBD/AOP/RTE/FG-13/07 Issue. 02, Dated. 20-10-2014	1 mm to 20 mm
	Particle Size (W)	ITC-FBD/AOP/RTE/FG-13/07 Issue. 02, Dated. 20-10-2014	1 mm to 10 mm
Chicken Fat	Moisture	IS 548 (Part 1): 1964	0.01 % to 0.5 %
	Free Fatty Acid As Oleic Acid	IS 548 (Part 1): 1964	0.1 % to 2 %
	Peroxide Value	IS 548 (Part 1): 1964	0.1 to 2
Non Veg Ready	Total Soluble Solids	IS 5861: 1993	1 % to 20 %
vieais (Gravy)	Total Acidity	DGHS Manual 5, Page. 12 (2005)	0.1 % to 10 %
	Salt as NaCl as NaCl	DGHS Manual 5, Page. 12 (2005)	0.2 % to 5.0 %
	Material of Test Dehydrated Chicken Chicken Fat	Material of TestDehydrated ChickenRehydration RatioProtein (N x 6.25)Salt as NaClFree Fatty Acid Oleic AcidBulk DensityParticle Size (L)Particle Size (W)Chicken FatMoistureFree Fatty Acid As Oleic AcidPeroxide ValuePorticle SolidsTotal Soluble SolidsTotal Acidity	Material of Testagainst which tests are performedDehydrated ChickenRehydration RatioDGHS Manual 5, Page. 51 (2005)Protein (N x 6.25)IS 5960 (Part 3): 1970, DGHS Manual 6 Page. 22 (2005)Salt as NaClIS 5960 (Part 6 / Sec 1): 1970Free Fatty Acid Oleic AcidIS 548 (Part 1): 1964Bulk DensityIS 16033: 2012Particle Size (L)ITC-FBD/AOP/RTE/FG-13/07 Issue. 02, Dated. 20-10-2014Particle Size (W)ITC-FBD/AOP/RTE/FG-13/07 Issue. 02, Dated. 20-10-2014Chicken FatMoistureIS 548 (Part 1): 1964Non Veg Ready Meals (Gravy)Total Soluble SolidsIS 548 (Part 1): 1964Total AcidityDGHS Manual 5, Page. 12 (2005)

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	Non Veg Ready Meals (Gravy)	рН	DGHS Manual 5, Page. 12 (2005)	1.0 to 14.	0	
		Water Activity	AOAC (19 th Edition) 978.18: 2012	0.1 to 1.0		
		Proportion Of Gravy To Meat	IS 3044: 1973	20 g to 10 1: 5 ratio	00 g meat	
D.	Dehydrated Chicken, Non- Veg Ready	Saturated Fatty Acid	CQAL/INST/STP-07 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 996.06: 2012	LOD: 0.1	g to 50.0 g/100g g/100g	
Me	Veg Ready Meals, Chicken Fat	Mono Unsaturated Fatty Acid		0.3 g/100	0.3 g/100g to 50.0 g/100g LOD: 0.1 g/100g	
		Poly Unsaturated Fatty Acid		0.3 g/100 LOD: 0.1	g to 50.0 g/100g g/100g	
		Total Trans Fatty Acid	CQAL/INST/STP-36 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 996.06: 2012	LOD: 0.0	0g to 20 g/100g 1 g/100g	
		Cholesterol	CQAL/INST/STP-24 AOAC (994.10) Issue. 04, Dated. 20-08-2014		00g to 1 g/100g 01 g/100g	

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21. Other

A. Sensory Evaluation

a.	Chapati, Bakery & Confectionery Products, Fruits & Vegetable	Detection Threshold/Stimulus Threshold	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 8140: 1978	Qualitative
	Products, Milk & Dairy Products, Coffee, Chocolates, Honey, Spices & Condiments, Fruit Juices, Convenience Foods, Ready- To-Eat Foods, Food Flavors, Food Colours, Noodles, Pasta, Potato Chips & Namkeens	Difference Threshold	ASTM (2 nd Edition): 1996 - Sensory Testing Methods,	Qualitative
		Recognition Threshold	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 6273 (Part 1): 1971 IS 10641: 1983	Qualitative
		Simple Descriptive Test	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, ISO 6658: 2005	Qualitative
		Paired Comparison	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 6273 (Part 3, Sec 1): 1971, ISO 5495: 2005	Qualitative
		Triangle Test	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 6273 (Part 3/Sec I): 1971	Qualitative
		Intensity Ranking	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 6273 (Part 3/Sec I): 1971	Qualitative
		Flavour Profiling	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 15315: 2009	Qualitative

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	Chapati, Bakery & Confectionery Products, Fruits & Vegetable	Texture Profiling	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, ISO 12036: 1994	Qualitative
	Products, Milk & Dairy Products, Coffee, Chocolates,	Quantitative Descriptive Analysis	ASTM 1996 - Sensory Testing Methods, ISO 13299: 2005 ISO 4121: 2003	Qualitative
	Honey, Spices & Condiments, Fruit Juices, Convenience	Time Intensity Study	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, ASTM E 1909: 1997	Qualitative
	Foods, Ready- To-Eat Foods, Food Flavors, Food Colours,	Hedonic Tests	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 6273 (Part 3/Sec I): 1971	Qualitative
	Noodles, Pasta, Potato Chips & Namkeens	Paired Difference	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 6273 (Part 3/Sec I): 1971 ISO 5495: 2005	Qualitative
		Duo-Trio Test	ASTM (2 nd Edition): 1996 - Sensory Testing Methods, IS 6273 (Part 3/Sec I): 1971	Qualitative
		Rating Scale Test	ASTM (2 nd Edition): 1996 Sensory Testing Methods, IS 6273 (Part 11): 1971	Qualitative
		Preference Ranking	ASTM (2 nd Edition): 1996 - Sensory Testing Methods,	Qualitative

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II.	RESIDUES IN FC	OOD PRODUCTS			
1.	Biscuits, Bread Thin Crust Pizza Base, Frozen Tortilla Wrap,	Mycotoxins Aflatoxins B1, B2, G1, G2	CQAL/INST/STP-42 Issue. 03, Dated. 20-08-2014		to 1000 μg/kg μg/kg
	Cakes	Trace metal elements			
		Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10 2012		g to 5000 mg/kg mg/kg
		Arsenic	Issue. 04, Dated. 20-08-2014	4 0.3 mg/kg LOD: 0.1	g to 10 mg/kg mg/kg
		Tin		1.2 mg/kg LOD: 0.6	g to 2000 mg/kg mg/kg
		Cadmium	CQAL/INST/STP-38 Issue. 04, Dated. 20-08-2014		g to 2000 mg/kg mg/kg
		Mercury	CQAL/INST/STP-40 Issue. 04, Dated. 20-08-2014		g to 10 mg/kg mg/kg
		Pesticides			
		Carbofuran	CQAL/INST/STP-55 Issue. 04,	10 µg/kg	to 300 µg/kg
		Chlorobenzilate	Dated. 20/08/2014 AOAC (19 th Edition) 2007.0		to 300 µg/kg
		ChlorfenvinPhos	2012 QuEChERS		to 300 µg/kg
		Chlorpyrifos		10 µg/kg	to 300 µg/kg
		Diazinon		10 µg/kg	to 300 µg/kg
		Dichlorvos		10 µg/kg	to 300 µg/kg

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	Biscuits, Bread Thin Crust Pizza	Dimethoate	CQAL/INST/STP-55 Issue. 04,	10 µg/kg to 300 µg/kg
	Base, Frozen Tortilla Wrap,	Ethion	Dated. 20/08/2014 AOAC (19 th Edition) 2007.01:	10 µg/kg to 300 µg/kg
	Cakes	EdifenPhos	2012 QuEChERS	10 μ g/kg to 300 μ g/kg
		Fenitrothion		10 µg/kg to 300 µg/kg
		Fenthion		10 µg/kg to 300 µg/kg
		Fosetyl-Al	CQAL/INST/STP-56 Issue. 04, Dated. 20-08-2014	10 μg/kg to 300 μg/kg
		Monocrotophos	AOAC (19 th Edition) 2007.01: 2012, QuEChERS	10 µg/kg to 300 µg/kg
		2, 4 – D		10 μg/kg to 300 μg/kg
		Aldrin		10 μg/kg to 300 μg/kg
		Benomyl (As Carbendazim)	CQAL/INST/STP-56 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 2007.01: 2012, QuEChERS	10 µg/kg to 300 µg/kg
		Carbaryl		10 μg/kg to 300 μg/kg
		Carbendazim	2012, Queenerko	10 μg/kg to 300 μg/kg
		α– Endosulphan		10 μg/kg to 300 μg/kg
		β– Endosulphan		10 μg/kg to 300 μg/kg
		Endosulphan Sulphate		10 μg/kg to 300 μg/kg
		Fenvalerate		10 μg/kg to 300 μg/kg
		Heptachlor		10 µg/kg to 300 µg/kg

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	Biscuits, Bread Thin Crust Pizza	α– Hexa Chloro Cyclohexane	CQAL/INST/STP-56 Issue. 04, Dated. 20-08-2014	100	to 1000 µg/kg
	Base, Frozen Tortilla Wrap,	β – Hexa Chloro Cyclohexane	AOAC (19 th Edition) 2007.0 2012, QuEChERS		to 300 µg/kg

			-	
	Biscuits, Bread Thin Crust Pizza	α– Hexa Chloro Cyclohexane	CQAL/INST/STP-56	10 μg/kg to 1000 μg/kg
	Base, Frozen	β – Hexa Chloro Cyclohexane	Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 2007.01: 2012, QuEChERS	10 μg/kg to 300 μg/kg
	Tortilla Wrap, Cakes	γ– Hexa Chloro Cyclohexane	2012, Quechers	10 μg/kg to 300 μg/kg
		δ – Hexa Chloro Cyclohexane		10 μg/kg to 300 μg/kg
		Malathion		10 μg/kg to 300 μg/kg
		Mancozeb as Dithiocarbamate		10 μg/kg to 300 μg/kg
		Phorate		10 μg/kg to 300 μg/kg
		Chlordane		10 μg/kg to 300 μg/kg
		Cypermethrin		10 μg/kg to 300 μg/kg
		DDT and its Isomers		10 μg/kg to 300 μg/kg
		Deltamethrin		10 μg/kg to 300 μg/kg
		Dicofol		10 μg/kg to 300 μg/kg
		Dithiocarbamate	CQAL/INST/STP-55	10 µg/kg to 300 µg/kg
		Paraquat Dichloride	Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 2007.01: 2012 OuEChEPS	10 μg/kg to 300 μg/kg
		Phenthoate	2012 QuEChERS	10 µg/kg to 300 µg/kg
		Phoshamidon		10 μ g/kg to 300 μ g/kg
		Pirimiphos – Methyl		10 μg/kg to 300 μg/kg

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	Biscuits, Bread Thin Crust Pizza	Quinolphos	CQAL/INST/STP-55 Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Base, Frozen Tortilla Wrap,	Thiometon	AOAC (19 th Edition) 2007.01: 2012 QuEChERS	10 μ g/kg to 300 μ g/kg
	Cakes	Trichlorfon		10 μ g/kg to 300 μ g/kg
		Triazophos		10 µg/kg to 300 µg/kg
		Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 25-11-2015	1 µg/kg to 300 µg/kg
		Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 25-11-2015	5 μ g/kg to 300 μ g/kg
		Inorganic Bromide	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	10 μg/kg to 300 μg/kg
		Texture – Hardness	CQAL/INST/STP-48 Issue. 04, Dated. 20-08-2014	400 g to 6500 g LOD: 20 g
2.	Hard Boiled Confectionery, Toffees, Lozenges,	Mycotoxins Aflatoxins B1, B2, G1, G2	CQAL/INST/STP-42 Issue. 03, Dated. 20-08-2014	2.0 µg/kg to 1000 µg/kg LOD: 0.1 µg/kg
	Jellicious,	Trace metal elements		
	Chewing Gum	Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10: 2012	0.3 mg/kg to 5000 mg/k LOD: 0.1 mg/kg
		Copper	Issue. 04, Dated. 20-08-2014	0.6 mg/kg to 2000 mg/k LOD: 0.2 mg/kg

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	Hard Boiled Confectionery, Toffees,	Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10: 2012	0.3 mg/kg to 10 mg/kg LOD: 0.1 mg/kg
	Lozenges, Jellicious, Chewing Gum	Zinc	Issue. 03, Dated. 20-08-2014	1 mg/kg to 20000 mg/kg LOD: 0.6 mg/kg
		Tin		1.0 mg/kg to 2000 mg/kg LOD: 0.6 mg/kg
		Cadmium		0.8 mg/kg to 2000 mg/kg LOD: 0.3 mg/kg
		Mercury	CQAL/INST/STP-40 Issue. 04, Dated. 20-08-2014	0.3 mg/kg to 10 mg/kg LOD: 0.1 mg/kg
		Pesticides Benomyl	CQAL/INST/STP-55 AOAC	10 μg/kg to 300 μg/kg
		Buprofezin	(19 th Edition) 2007.01: 2012, QuEChERS Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		Butachlor		10 μg/kg to 300 μg/kg
		Carbaryl		10 µg/kg to 300 µg/kg
		Carbendazim		10 µg/kg to 300 µg/kg
		Carbofuran		10 µg/kg to 300 µg/kg
		Carbosulfan		10 μg/kg to 300 μg/kg
		Carpropamid		10 μg/kg to 300 μg/kg
		Cartap Hydrochloride		10 μg/kg to 300 μg/kg

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	Hard Boiled Confectionery,	ChlorfenvinPhos	CQAL/INST/STP-55 AOAC (19th Edition) 2007.01: 2012,	10 µg/kg to 300 µg/kg
	Confectionery, Toffees, Lozenges, Jellicious, Chewing Gum	Chlorobenzilate	QuEChERS Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		Clomazone	155uc. 04, Dated. 20-00-2014	10 μ g/kg to 300 μ g/kg
		Cyhalop – Butyl		10 μ g/kg to 300 μ g/kg
		Chlordane		10 μ g/kg to 300 μ g/kg
		2, 4 – D		10 µg/kg to 300 µg/kg
		Alachlor		10 µg/kg to 300 µg/kg
		Anilophos		10 μg/kg to 300 μg/kg
		Atrazine		10 µg/kg to 300 µg/kg
		Benfuracarb		10 µg/kg to 300 µg/kg
		Dichlorvos		10 µg/kg to 300 µg/kg
		Dimethoate		10 µg/kg to 300 µg/kg
		Diuron		10 μg/kg to 300 μg/kg
		Edifenphos		10 µg/kg to 300 µg/kg
		Ethephon		10 μg/kg to 300 μg/kg
		Ethion		10 μg/kg to 300 μg/kg
		Ethoxysulfuron		10 µg/kg to 300 µg/kg

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	Hard Boiled Confectionery,	Fenitrothion	CQAL/INST/STP-55 AOAC (19 th Edition) 2007.01: 2012,	10 µg/kg to 300 µg/kg
	Confectionery, Toffees, Lozenges, Jellicious, Chewing Gum	Fenobucarb	QuEChERS Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		Fenthion	1550C. 04, Duce. 20 00 2014	10 μ g/kg to 300 μ g/kg
		Flufanacet		10 µg/kg to 300 µg/kg
		Formothion		10 μ g/kg to 300 μ g/kg
		Imidacloprid		10 μ g/kg to 300 μ g/kg
		Kitazin		10 μ g/kg to 300 μ g/kg
		Malathion		10 µg/kg to 300 µg/kg
		Metalaxyl		10 μg/kg to 300 μg/kg
		MCPA (2-Methyl-4- ChloroPhenoxyacetic Acid)		10 µg/kg to 300 µg/kg
		Monocrotophos		10 µg/kg to 300 µg/kg
		Oxadiargyl		10 μg/kg to 300 μg/kg
		Oxyflourfen		10 μg/kg to 300 μg/kg
		Paraquat Dichloride		10 μg/kg to 300 μg/kg
		Pendimethalin		10 μg/kg to 300 μg/kg
		Phenthoate		10 μg/kg to 300 μg/kg
		Phorate		10 μg/kg to 300 μg/kg

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	Hard Boiled Confectionery,	Phosalone	CQAL/INST/STP-55 AOAC (19th Edition) 2007.01: 2012,	10 µg/kg to 300 µg/kg
	Confectionery, Toffees, Lozenges, Jellicious, Chewing Gum	Phosphamidon	QuEChERS Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		PirimiPhos – Methyl	135uc. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		Pretilachlor		10 μ g/kg to 300 μ g/kg
		Pyrazosulfuron Ethyl		10 μ g/kg to 300 μ g/kg
		Quinalphos		10 µg/kg to 300 µg/kg
		Simazine		10 µg/kg to 300 µg/kg
		Thiamethoxam		10 μg/kg to 300 μg/kg
		Thiocloprid		10 μg/kg to 300 μg/kg
		Thiometon		10 µg/kg to 300 µg/kg
		TriazoPhos		10 μg/kg to 300 μg/kg
		Trichlorfon		10 μg/kg to 300 μg/kg
		Tricyclazole		10 μg/kg to 300 μg/kg
		Tridemorph	CQAL/INST/STP-56 AOAC	10 μg/kg to 300 μg/kg
		Aldrin		10 μg/kg to 300 μg/kg
	Chlorpyriphos (19 th Edition) 2007.01: 2013 QuEChERS Issue. 04, Dated. 14-07-201 Copper Oxychloride	Chlorpyriphos	QuEChERS	10 μg/kg to 300 μg/kg
		Issue. 04, Dated. 14-07-2014	10 µg/kg to 300 µg/kg	

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		against which tests are performed	Limits of Detection
Hard Boiled	DDT & Its Isomers	CQAL/INST/STP-56 AOAC	10 µg/kg to 300 µg/kg
Toffees, Lozenges, Jellicious,	Dicofol	QuEChERS	10 µg/kg to 300 µg/kg
	Dithiocarbamate	135uc. 04, Dutcu. 14 07 2014	10 µg/kg to 300 µg/kg
Chewing Gum	α – Endosulphan		10 μ g/kg to 300 μ g/kg
	Endosulphan Sulphate		
	Ethofenprox		10 µg/kg to 300 µg/kg
	Fenvalerate		10 µg/kg to 300 µg/kg
	Heptachlor		10 µg/kg to 300 µg/kg
	Hexachlorocyclohexane		10 µg/kg to 300 µg/kg
	Iprodione		10 µg/kg to 300 µg/kg
	Isoprothiolane		10 µg/kg to 300 µg/kg
	Parathion – Methyl		10 µg/kg to 300 µg/kg
	Propineb as Dithiocarbamate		10 µg/kg to 300 µg/kg
	Pyrethrins		10 µg/kg to 300 µg/kg
	Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 25-11-2015	1 µg/kg to 300 µg/kg
	Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 25-11-2015	5 μ g/kg to 300 μ g/kg
	Lozenges,	Toffees, Lozenges, Jellicious, Chewing GumDicofol0Dithiocarbamateα – EndosulphanEndosulphan SulphateEthofenproxFenvalerateHeptachlorHexachlorocyclohexaneIprodioneIsoprothiolaneParathion – MethylPropineb as DithiocarbamatePyrethrinsHydrogen Cyanide	Toffees, Lozenges, Jellicious, Chewing GumDicofolQuEChERS Issue. 04, Dated. 14-07-2014Dithiocarbamate α – EndosulphanDithiocarbamateEndosulphan SulphateEthofenproxEthofenproxFenvalerateHeptachlorHexachlorocyclohexaneIprodioneIsoprothiolaneParathion – MethylPropineb as DithiocarbamatePyrethrinsHydrogen CyanideCQAL/INST/STP-79 Issue. 04, Dated. 25-11-2015Hydrogen PhosphideCQAL/INST/STP-80

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	Hard Boiled Confectionery, Toffees, Lozenges, Jellicious, Chewing Gum	Inorganic Bromide	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	10 μg/kg	to 300 μg/kg	
3.	Potato Chips, Namkeens	Mycotoxins Aflatoxins B1, B2, G1, G2	CQAL/INST/STP-42 Issue. 03, Dated. 20-08-2014		to 1000 μg/kg μg/kg	
		Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014		g to 1000 mg /kg mg/kg	
		Copper	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10: 2012		to 1000 μg /kg μg /kg	
		Arsenic	Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.3	g to 10 mg/kg mg/kg	
		Tin		1.2 μg/kg LOD: 0.6	to 1000 μg/kg μg/kg	
		Cadmium		0.8 μg/kg LOD: 0.3	to 1000 μg/kg μg/kg	
		Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	LOD: 0.6	g to 10 mg/kg mg/kg	

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6. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potato Chips,	Clomazone	CQAL/INST/STP-55	10 µg/kg to 300 µg/kg
	Namkeens	Cyhalofop – Butyl	AOAC (2007.01) QuEChERS Issue. 01, Dated. 14-07-2014	10 µg/kg to 300 µg/kg
		Diazinon		10 µg/kg to 300 µg/kg
		Dichlorvos		10 μ g/kg to 300 μ g/kg
		Diclofop – Methyl		10 μ g/kg to 300 μ g/kg
		Dimethoate		10 µg/kg to 300 µg/kg
		Dimethomorph		10 µg/kg to 300 µg/kg
		EdifenPhos		10 µg/kg to 300 µg/kg
		EthePhon		10 μ g/kg to 300 μ g/kg
		Ethion		10 µg/kg to 300 µg/kg
		Fenitrothion		10 µg/kg to 300 µg/kg
		Fenobucarb		10 μ g/kg to 300 μ g/kg
		Fenoxy – Prop – Ethyl		10 µg/kg to 300 µg/kg
		Fenthion		10 μg/kg to 300 μg/kg
		Flufenacet		10 μg/kg to 300 μg/kg
		Formothion		10 μg/kg to 300 μg/kg
		Imidachloprid		10 μg/kg to 300 μg/kg

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6. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potato Chips, Namkeens	Isoproturon	CQAL/INST/STP-55 AOAC (2007.01), QuEChERS Issue. 01, Dated. 14-07-2014	10 μ g/kg to 300 μ g/kg
		Kitazin		10 µg/kg to 300 µg/kg
		Malic Hydrazide		10 µg/kg to 300 µg/kg
		Metalaxyl		10 µg/kg to 300 µg/kg
		Metasulfuron – Methyl		10 µg/kg to 300 µg/kg
		Methabenzthiazuron		10 µg/kg to 300 µg/kg
		Pyrazosulfuron Ethyl		10 µg/kg to 300 µg/kg
		QuinoPhos		10 µg/kg to 300 µg/kg
		Simazine		10 µg/kg to 300 µg/kg
		Sufosulfuron		10 µg/kg to 300 µg/kg
		Tebuconazole		10 µg/kg to 300 µg/kg
		Thiamethoxam		10 µg/kg to 300 µg/kg
		Thiochloprid		10 µg/kg to 300 µg/kg
		Thiometon		10 µg/kg to 300 µg/kg
		Triadimenol		10 µg/kg to 300 µg/kg
		Triallate		10 µg/kg to 300 µg/kg
		Triazophos		10 µg/kg to 300 µg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potato Chips,	Trichlorfon	CQAL/INST/STP-55	10 µg/kg to 300 µg/kg
	Namkeens	Tricyclazole	AOAC (2007.01), QuEChERS Issue. 01, Dated. 14-07-2014	10 μ g/kg to 300 μ g/kg
		Tridemorph		10 μ g/kg to 300 μ g/kg
		Captafol		10 µg/kg to 300 µg/kg
		Methyl Chloro Phenoxy Acetic Acid (MCPA)		10 μ g/kg to 300 μ g/kg
		Monocrotophos		10 µg/kg to 300 µg/kg
		Oxadiargyl		10 µg/kg to 300 µg/kg
		Oxuflorfen		10 µg/kg to 300 µg/kg
		Paraquat Dichloride		10 µg/kg to 300 µg/kg
		Pretilachlor		10 µg/kg to 300 µg/kg
		Phenthoate		10 µg/kg to 300 µg/kg
		Phosphamidon		10 µg/kg to 300 µg/kg
		PirimiPhos Methyl		10 µg/kg to 300 µg/kg
		Propiconazole		10 µg/kg to 300 µg/kg
		Chlorothalonil		10 µg/kg to 300 µg/kg
		Chlorpyrifos		10 µg/kg to 300 µg/kg
		Copper Oxy Chloride		10 µg/kg to 300 µg/kg
		Cypermethrin		10 µg/kg to 300 µg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potato Chips,	Parathion	CQAL/INST/STP-56	10 μg/kg to 300 μg/kg
	Namkeens	Parathion Methyl	AOAC (2007.01), QuEChERS Issue. 04, Dated. 20-08-2014	10 μg/kg to 300 μg/kg
		Phorate		10 µg/kg to 300 µg/kg
		Propineb As Dithiocarbamate		10 µg/kg to 300 µg/kg
		Pyrethrins		10 µg/kg to 300 µg/kg
		Trifluralin		10 µg/kg to 300 µg/kg
		Iprodione		10 µg/kg to 300 µg/kg
		Isprothiolane		10 µg/kg to 300 µg/kg
		Malathion		10 µg/kg to 300 µg/kg
		Mancozeb As Dithiocarbamate		10 µg/kg to 300 µg/kg
		Metiram Isomer As Dithiocarbamate		10 μg/kg to 300 μg/kg
		DDT & Its Isomers		10 μg/kg to 300 μg/kg
		Decamethrin		10 µg/kg to 300 µg/kg
		Dicofol		10 µg/kg to 300 µg/kg
		Dithiocarbamate		10 µg/kg to 300 µg/kg
		α- Endosulphan		10 µg/kg to 300 µg/kg
		β – Endosulphan		10 µg/kg to 300 µg/kg

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3. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potato Chips, Namkeens	Endosulphan Sulphate	CQAL/INST/STP-56	10 µg/kg to 300 µg/kg
		Ethofenprox	AOAC (2007.01), QuEChERS Issue. 04, Dated. 20-08-2014	10 μg/kg to 300 μg/kg
		Fenvalerate		10 µg/kg to 300 µg/kg
		Heptachlor		10 µg/kg to 300 µg/kg
		α – Hexa Chloro Cyclohexane		10 µg/kg to 300 µg/kg
		β – Hexa Chloro Cyclohexane		
		γ – Hexa Chloro Cyclohexane		
		δ – Hexa Chloro Cyclohexane		
		Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	1 $\mu g/kg$ to 300 $\mu g/kg$
		Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	5 μ g/kg to 300 μ g/kg
		Inorganic Bromide	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	10 $\mu g/kg$ to 300 $\mu g/kg$
4.	Potato Chips	Pesticides		
		2, 4 – D	CQAL/INST/STP-55 AOAC (19 th Edition) 2007.01:	10 µg/kg to 300 µg/kg
		Alachlor	2012, QuEChERS	10 μ g/kg to 300 μ g/kg
		Aldicarb	Issue. 01, Dated. 14-07-2014	10 µg/kg to 300 µg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Namkeens	Aldrin	CQAL/INST/STP-55	10 µg/kg to 300 µg/kg
		Anilophos	AOAC (19 th Edition) 2007.01: 2012, QuEChERS Issue. 01, Dated. 14-07-2014	10 μ g/kg to 300 μ g/kg
		Atrazine	15sue. 01, Dateu. 14-07-2014	10 μ g/kg to 300 μ g/kg
		Benfuracarb		10 µg/kg to 300 µg/kg
		Benomyl		10 µg/kg to 300 µg/kg
		Bitertanol		10 μ g/kg to 300 μ g/kg
		Buprofezin		10 μ g/kg to 300 μ g/kg
		Butachlor		10 μg/kg to 300 μg/kg
	Carbaryl Carbendazim Carbofuran Carbosulfan Carpropamid	Carbaryl		10 µg/kg to 300 µg/kg
		Carbendazim		10 µg/kg to 300 µg/kg
		Carbofuran		10 µg/kg to 300 µg/kg
			10 µg/kg to 300 µg/kg	
			10 μg/kg to 300 μg/kg	
		Cartap Hydrochloride	10 μ g/kg to 300 μ g/kg	
		Chlordane		10 μ g/kg to 300 μ g/kg
		Chlorfenvinphos		10 μ g/kg to 300 μ g/kg
		Chlorimuron – Ethyl		10 μ g/kg to 300 μ g/kg
		Chlodinafop – Propanyl		10 μ g/kg to 300 μ g/kg

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6.	Mix Rice Dosa Mix Rice Idli Mix Rava Idli Mix	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (999.10) Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg		
		Copper		0.8 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg		
		Tin		1.2 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg		
		Zinc		1.0 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg		
		Cadmium	CQAL/INST/STP-38 AOAC (999.10)	0.8 mg/kg LOD: 0.3	g to 50000 mg/kg mg/kg		
		Nickel	Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.3	g to 50000 mg/kg mg/kg		
		Arsenic	CQAL/INST/STP-39 AOAC (999.10) Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.3	g to 10 mg/kg mg/kg		
		Mercury	CQAL/INST/STP-40 AOAC (999.10) Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.6	g to 10 mg/kg mg/kg		
		Pesticides 2, 4 – D	CQAL/INST/STP-55		to 300 μg/kg		
		Aldicarb	AOAC (2007.01), QuEChERS Issue. 04, Dated. 20-08-2014		to 300 µg/kg		
		AniloPhos		10 µg/kg	to 300 µg/kg		

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Gulab Jamun Mix Rice Dosa Mix Rice Idli Mix Rava Idli Mix	Atrazine	CQAL/INST/STP-55 AOAC (2007.01), QuEChERS	10 µg/kg to 300 µg/kg
		Benfuracarb	Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
		Flufenacet		10 µg/kg to 300 µg/kg
		Fosetyl – Al		10 µg/kg to 300 µg/kg
		Imidacloprid		10 µg/kg to 300 µg/kg
		Kitazin		10 µg/kg to 300 µg/kg
		Ethoxysulfuron		10 µg/kg to 300 µg/kg
		Fenitrothion		10 µg/kg to 300 µg/kg
		Fenobucarb		10 µg/kg to 300 µg/kg
		Fenthion		10 µg/kg to 300 µg/kg
		Diuron		10 µg/kg to 300 µg/kg
		EdifenPhos		10 µg/kg to 300 µg/kg
		EthePhon		10 µg/kg to 300 µg/kg
		Ethion		10 µg/kg to 300 µg/kg
		Benomyl (As Carbendazim)		10 µg/kg to 300 µg/kg
		Buprofezin		10 µg/kg to 300 µg/kg
		Butachlor		10 µg/kg to 300 µg/kg

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	Gulab Jamun Mix	Carbaryl	CQAL/INST/STP-55 AOAC (2007.01), QuEChERS	10 µg/kg to 300 µg/kg
	Mix Rice Dosa Mix Rice Idli Mix Rava Idli Mix	Carbendazim	Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		Carbofuran		10 µg/kg to 300 µg/kg
		Carbosulfan		10 µg/kg to 300 µg/kg
		Carpropamid	10 µg/kg to 300 µg/kg	
	Cartap Hydrochloride	10 µg/kg to 300 µg/kg		
		Chlorobenzilate		10 µg/kg to 300 µg/kg
		ChlorofenvinPhos		10 µg/kg to 300 µg/kg
		Clomazone		10 µg/kg to 300 µg/kg
		Cyhalofop – Butyl		10 µg/kg to 300 µg/kg
		Diazinon		10 µg/kg to 300 µg/kg
		Dichlorvos		10 µg/kg to 300 µg/kg
		Dimethomorph		10 µg/kg to 300 µg/kg
	Dimethoate	10 µg/kg to 300 µg/kg		
		Pretilachlor		10 µg/kg to 300 µg/kg
	Pyrazosulfuron – Ethyl		10 µg/kg to 300 µg/kg	
		Quinalphos		10 µg/kg to 300 µg/kg

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	Gulab Jamun Mix Rice Dosa Mix Rice Idli Mix Rava Idli Mix	Simazine	CQAL/INST/STP-55 AOAC (2007.01), QuEChERS	10 μ g/kg to 300 μ g/kg
		Thiamethoxam	Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		Thiocloprid		10 µg/kg to 300 µg/kg
		Thiometon		10 µg/kg to 300 µg/kg
		Triazophos		10 µg/kg to 300 µg/kg
		Trichlorfon		10 µg/kg to 300 µg/kg
		Tricyclazole		10 µg/kg to 300 µg/kg
		Tridemorph		10 µg/kg to 300 µg/kg
		Malic Hydrazide		10 µg/kg to 300 µg/kg
		Methyl Chloro Phenoxy Acetic Acid (MCPA)		10 μ g/kg to 300 μ g/kg
		Monocrotophos		10 µg/kg to 300 µg/kg
		Novaluron		10 µg/kg to 300 µg/kg
		Oxadiargyl	9	10 µg/kg to 300 µg/kg
		Oxadiazon		10 µg/kg to 300 µg/kg
		Demeton – S – Methyl Sulfoxide		10 µg/kg to 300 µg/kg
	Oxyfluorfen		10 µg/kg to 300 µg/kg	
		Paraquat Dichloride		10 µg/kg to 300 µg/kg

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	Gulab Jamun Mix	Pendimethalin	CQAL/INST/STP-55 AOAC (2007.01), QuEChERS	10 µg/kg to 300 µg/kg
	Rice Dosa Mix Rice Idli Mix Rava Idli Mix	Phenthoate	Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		Phosalone		10 µg/kg to 300 µg/kg
		Phosphamidaon		10 μg/kg to 300 μg/kg
	PirimiPhos – Methyl α – Hexa Chloro Cyclohexane CQAL/INST/STP-56	PirimiPhos – Methyl		10 µg/kg to 300 µg/kg
			10 µg/kg to 300 µg/kg	
		β – Hexa Chloro Cyclohexane	AOAC (2007.01), QuEChERS Issue. 04, Dated. 20-08-2014	
		γ – Hexa Chloro Cyclohexane		
		δ – Hexa Chloro Cyclohexane	CQAL/INST/STP-56	
		Pyrethrins	AOAC (2007.01), QuEChERS Issue. 04, Dated. 20-08-2014	10 μg/kg to 300 μg/kg
		Heptachlor		10 μg/kg to 300 μg/kg
		Malathion Malaxon		10 µg/kg to 300 µg/kg
		Aldrin		10 µg/kg to 300 µg/kg
		Captafol		10 μg/kg to 300 μg/kg
		Chlordane		10 μg/kg to 300 μg/kg
		Chloropyrifos	10 µg/kg to 300 µg/kg	
		Chlorothalonil		10 µg/kg to 300 µg/kg

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	Gulab Jamun Mix	Copper Oxychloride (As Copper)	CQAL/INST/STP-56 AOAC (2007.01), QuEChERS	10 µg/kg to 300 µg/kg
	Mix Rice Dosa Mix Rice Idli Mix Rava Idli Mix	Cypermethrin	Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
		DDT And Isomers		10 µg/kg to 300 µg/kg
		Decamethrin		10 µg/kg to 300 µg/kg
		Dicofol		10 µg/kg to 300 µg/kg
	Mancozeb As Dithiocarbamate α – Endosulphan	Mancozeb As Dithiocarbamate		10 µg/kg to 300 µg/kg
			10 µg/kg to 300 µg/kg	
		β – Endosulphan		
		Endosulphan Sulphate		
		Ethofenprox		10 µg/kg to 300 µg/kg
		Fenvalerate		10 µg/kg to 300 µg/kg
		Iprodione		10 µg/kg to 300 µg/kg
		Isoprothiolane		10 µg/kg to 300 µg/kg
	Dithi	Metiram Isomer As Dithiocarbamate		10 μ g/kg to 300 μ g/kg
		Parathion		10 µg/kg to 300 µg/kg
		Parathion – Methyl Paraoxon – Methyl		10 µg/kg to 300 µg/kg

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	Gulab Jamun Mix	Phorate	CQAL/INST/STP-56 AOAC (2007.01), QuEChERS	10 µg/kg to 300 µg/kg
	Rice Dosa Mix Rice Idli Mix	Propineb As Dithiocarbamate	Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
	Rava Idli Mix	Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
		Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
		Inorganic Bromide	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	10 μg/kg to 300 μg/kg
7.	Ready To Eat Meals, Frozen Ready To Eat Maala Tomata	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10: 2012	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Meals, Tomato Ketchup, Jams & Marmalades,	Copper	Issue. 04, Dated. 20-08-2014	0.8 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Halwas, Ginger Masala, Garlic Masala, Red	Tin		1.2 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Chilli Masala, Chutneys,	Zinc		1 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Conserves, Dehydrated Vegetables,	Cadmium		0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Dehydrated White Onion Toasted Minced,	Nickel		0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Dehydrated Garlis Minced, Fruit Powders, Mango Pulp,	Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.8 mg/kg to 10 mg/kg LOD: 0.3 mg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Tomato Paste, Parsley, Tomato Powder, Beet Juice Powder, Coconut Milk	Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.8 mg/kg to 10 mg/kg LOD: 0.6 mg/kg
	Powder, Desiccated Coconut Powder	Benzoic Acid	CQAL/INST/STP-16 Issue. 04, Dated. 20-08-2014	5 mg/kg to 2000 mg/kg LOD: 1 mg/kg
		Sorbic Acid	CQAL/INST/STP-16 Issue. 04, Dated. 20-08-2014	5 mg/kg to 2000 mg/kg LOD: 1 mg/kg
8.	Maida, Wheat Fibre, White Oats, Whole Wheat Atta,	Mycotoxins Aflatoxins B1, B2, G1 And G2	CQAL/INST/STP-42 Issue. 03 & 4 Dated. 20-08-2014	2.0 μg/kg to 1000 μg/kg LOD: 0.5 μg/kg
	Multigrain Atta, Wheat, Soya Flour, Gram Flour, Maize	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10:	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Flour, Oat Flour, Psyllium Husk, Base Noodles,	Tin	2012 Issue. 04, Dated. 20-08-2014	1.2 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Plain Pasta, Black Gram/ Urad Dal, Red Gram/Toor Dal/ Arhar Dal,	Cadmium	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Bengal Gram, Horse Gram, Corn Meal, Rice Meal, Gram Meal	Arsenic	CQAL/INST/STP-39 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10: 2012	0.8 mg/kg to 10 mg/kg LOD: 0.3 mg/kg

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	Maida, Wheat Fibre, White Oats, Whole Wheat Atta, Multigrain Atta,	Mercury	CQAL/INST/STP-40 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10: 2012	0.8 mg/kg to 10 mg/kg LOD: 0.6 mg/kg
	Wheat, Soya	Pesticides		
	Flour, Gram Flour, Maize	Carbaryl	CQAL/INST/STP-55 AOAC (19 th Edition) 2007.01:	10 μ g/kg to 300 μ g/kg
	Flour, Oat Flour, Psyllium Husk,	Diazinon	2012, QuEChERS Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Base Noodles, Plain Pasta,	Dichlorvos		10 μ g/kg to 300 μ g/kg
	Black Gram/Urad Dal,	Fenitrothion		10 µg/kg to 300 µg/kg
	Red Gram/Toor Dal/Arhar Dal,	Phosphamidon		10 µg/kg to 300 µg/kg
	Bengal Gram, Horse Gram,	2, 4 – D		10 µg/kg to 300 µg/kg
	Corn Meal, Rice Meal, Gram	Ethion		10 μg/kg to 300 μg/kg
	Meal	MonocrotoPhos		10 µg/kg to 300 µg/kg
		Paraquat Dichloride		10 μg/kg to 300 μg/kg
		Sulfosulfuron		10 μg/kg to 300 μg/kg
		Chlorimuron – Ethyl		10 µg/kg to 300 µg/kg
		Trichlorfon		10 µg/kg to 300 µg/kg
		Thiometon		10 μ g/kg to 300 μ g/kg
		Carbendazim		10 μ g/kg to 300 μ g/kg

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	Maida, Wheat Fibre, White	Benomyl	CQAL/INST/STP-55 AOAC (19 th Edition) 2007.01:	10 µg/kg to 300 µg/kg
	Oats, Whole Wheat Atta,	Carbofuran	2012, QuEChERS Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Multigrain Átta, Wheat, Soya	Fenthion		10 µg/kg to 300 µg/kg
	Flour, Gram Flour, Maize	Phenthoate		10 µg/kg to 300 µg/kg
	Flour, Oat Flour, Psyllium Husk,	PirimiPhos – Methyl		10 μ g/kg to 300 μ g/kg
	Base Noodles, Plain Pasta,	Bitertanol		10 μ g/kg to 300 μ g/kg
	Black Gram/Urad Dal, Red Gram/Toor	Methyl Chloro Phenoxy Acetic Acid (MCPA)		10 µg/kg to 300 µg/kg
	Dal/Arhar Dal, Bengal Gram,	Tridemorph		10 μ g/kg to 300 μ g/kg
	Horse Gram, Corn Meal, Rice	Propiconazole		10 μ g/kg to 300 μ g/kg
	Meal, Gram Meal	Isoproturon		10 µg/kg to 300 µg/kg
		Tebuconazole		10 µg/kg to 300 µg/kg
		Dichlofop – Methyl		10 µg/kg to 300 µg/kg
		Pendimethalin		10 μ g/kg to 300 μ g/kg
		Metasulfuron – Methyl		10 μg/kg to 300 μg/kg
		Metabenzthiazuron		10 µg/kg to 300 µg/kg
		Triallate		10 μ g/kg to 300 μ g/kg
		Fenoxy – Prop – Ethyl		10 µg/kg to 300 µg/kg

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	Maida, Wheat Fibre, White	Clodinafop – Propagyl	CQAL/INST/STP-55 AOAC (19 th Edition) 2007.01:	10 µg/kg to 300 µg/kg
	Oats, Whole Wheat Atta, Multianoin Atta	Triadimenol	2012, QuEChERS Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Multigrain Atta, Wheat, Soya Flour, Gram Flour, Maize Flour, Oat Flour,	Aldrin	CQAL/INST/STP-56 AOAC (19 th Edition) 2007.01: 2012, QuEChERS Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Psyllium Husk, Base Noodles,	Chlordane	15sue. 04, Dated. 20-06-2014	10 µg/kg to 300 µg/kg
	Plain Pasta, Black	Demeton – S – Methyl Sulfoxide		10 µg/kg to 300 µg/kg
	Gram/Urad Dal, Red Gram/Toor	Trifluralin		10 µg/kg to 300 µg/kg
	Dal/Arhar Dal, Bengal Gram,	Heptachlor	CQAL/INST/STP-56 AOAC (19 th Edition) 2007.01:	10 μg/kg to 300 μg/kg
	Horse Gram, Corn Meal, Rice Meal, Gram	α – Hexa Chloro Cyclohexane β – Hexa Chloro Cyclohexane	2012, QuEChERS Issue. 04, Dated. 20-08-2014 CQAL/INST/STP-79	10 μg/kg to 300 μg/kg
	Meal, Gram Meal	γ – Hexa Chloro Cyclohexane	Issue. 04, Dated. 20-08-2014 CQAL/INST/STP-80	
		δ – Hexa Chloro Cyclohexane	Issue. 04, Dated. 20-08-2014 CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	
		Malathion	100 u c. 01, <i>Du</i> cu. 2011 2010	10 μ g/kg to 300 μ g/kg
		Pyrethrins		10 µg/kg to 300 µg/kg
		ChlorfenvinPhos		10 µg/kg to 300 µg/kg
		Chloropyrifos		10 μg/kg to 300 μg/kg
		Cypermethrin		10 μ g/kg to 300 μ g/kg

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	Maida, Wheat Fibre, White	Decamethrin		10 µg/kg to 300 µg/kg
	Oats, Whole Wheat Atta,	Dithiocarbamates		10 µg/kg to 300 µg/kg
	Multigrain Atta, Wheat, Soya Flour, Gram Flour, Maize	Phorate		10 μg/kg to 300 μg/kg
	Flour, Oat Flour, Psyllium Husk, Base Noodles,	Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	1 μ g/kg to 300 μ g/kg
	Plain Pasta, Black Gram/Urad Dal,	Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	5 μ g/kg to 300 μ g/kg
	Red Gram/Toor Dal/Arhar Dal, Bengal Gram, Horse Gram, Corn Meal, Rice Meal, Gram Meal	Inorganic Bromide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	15 μg/kg to 300 μg/kg
9.	Cocoa Powder, Plain Chocolate Chips, Dark Chocolate, Choco Cream,	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08- 2014	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Choco Covering, Cocoa Butter,	Tin	2014	1.2 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Chocolate Paste, Pure Coffee, Coffee-Chicory Powder, White Cream, Coffee	Cadmium		0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg

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	Extract, Cocoa Liquor, Cocoa Mass, Butterscotch	Arsenic	CQAL/INST/STP-39, AOAC (19 th Edition) 999.10: 2012, Issue. 04, Dated. 20-08-2014	0.8 mg/kg to 10 mg/kg LOD: 0.3 mg/kg
	Chips, Inner Filled Chocolate, Ganache Chocolate	Mercury	CQAL/INST/STP-40, AOAC (19 th Edition) 999.10: 2012, Issue. 04, Dated. 20-08-2014	0.8 mg/kg to 10 mg/kg LOD: 0.6 mg/kg
10.	Pectin	Trace metal elements		
	Dextrose Monohydrate, Liquid Glucose,	Lead	CQAL/INST/STP-38 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10:	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Maize Starch, High Maltose	Copper	2012	0.8 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Corn Syrup, Maltodextrin, Crystal Gum,	Tin		1.2 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Elastigel, Gum Arabic, Rice Starch, Pectin	Zinc		1.0 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
		Cadmium		0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
		Arsenic	CQAL/INST/STP-39 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10: 2012	0.8 mg/kg to 10 mg/kg LOD: 0.3 mg/kg
		Mercury	CQAL/INST/STP-40 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10 : 2012	0.8 mg/kg to 10 mg/kg LOD: 0.6 mg/kg

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11.	Caramel, Ponceau-4R, Sunset Yellow, Tartrazine, Erythrosine, Carmoisine, Brilliant Blue, Indigo Carmine, Annatto Powder, Liquid Flavors, Solid Flavor - Menthol	Trace metal elements Lead	CQAL/INST/STP-38 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10	LOD: 0.3	to 1000 μg/kg μg/kg
		Copper	2012		g to 50000 mg/kg mg/kg
		Tin		1.2 mg/kg LOD: 0.6	g to 10 mg/kg mg/kg
		Cadmium		0.8 mg/kg LOD: 0.3	g to 50000 mg/kg mg/kg
		Zinc		1.0 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg
		Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014	: LOD: 0.3	g to 50000 mg/kg mg/kg
		Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014	: LOD: 0.6	g to 10 mg/kg mg/kg
12.	Honey	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10 2012		g to 50000 mg/kg mg/kg
		Copper	Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg

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	Honey	Zinc	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10: 2012	0.5 mg/kg LOD: 0.1	g to 50000 mg/kg mg/kg
		Cadmium	Issue. 04, Dated. 20-08-2014	0.5 mg/kg LOD: 0.1	g to 50000 mg/kg mg/kg
		Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10: 2012 Issue. 03, Dated. 9-04-2014	0.3 mg/ką LOD: 0.1	g to 10 mg/kg mg/kg
		Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10: 2012 Issue. 03, Dated. 20-08-2014	0.3 mg/kg LOD: 0.1	g to 10 mg/kg mg/kg
13.	Chilli Flakes, Nutmeg, Cinnamon, Elaichi/Cardamo	Mycotoxins Aflatoxins B1, B2, G1, G2	CQAL/INST/STP-42 Issue. 03, Dated. 20-08-2014	2.0 μg/kg LOD: 0.5	to 1000 μg/kg μg/kg
	m, Masala Mix/Curry Paste, Export	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10: 2012	0.8 µg/kg LOD: 0.3	to 50000 μg/kg μg/kg
	Sauces, Pasta Saucemaker, Spice Mix, Chilli	Copper	Issue. 04, Dated. 20-08-2014	0.8 μg/kg LOD: 0.6	to 50000 μg/kg μg/kg
	Whole, Turmeric Whole, Coriander	Tin		1.2 μg/kg LOD: 0.6	to 50000 μg/kg μ g/kg
	Whole, Chilli Powder,	Zinc		1.0 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg
	Turmeric Powder, Coriander	Cadmium		0.8 μg/kg LOD: 0.3	to 50000 μg/kg μg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Powder, Blended Spices, Fenugreek Whole, Dehydrated	Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.3 mg/kg to 10 mg/kg LOD: 0.1 mg/kg
	Curry Leaves, Garlic Powder, Compounded Asafetida, Black Pepper Whole,	Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08-2014	0.3 mg/kg to 10 mg/kg LOD: 0.1 mg/kg
	Ginger Powder, Whole Black Mustard, Cumin Whole, Seasoning,	Capsaicinoids	CQAL/INST/STP-05 AOAC (19 th Edition) 995.03: 2012 Issue. 04, Dated. 20-08-2014	1000 SHU to 1500000 SHU LOD: 100 SHU
	Onion Powder, Paprika Oleoresin, Clove Leaf Oil, Cassia	Pesticides 2, 4 – D Benfuracarb	CQAL/INST/STP-55 AOAC (19 th Edition) 2007.01: 2012, QuEChERS	10 μg/kg to 300 μg/kg 10 μg/kg to 300 μg/kg
	Oil, Amchur Powder	Benomyl	Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
		Carbaryl Carbendazim		10 μg/kg to 300 μg/kg 10 μg/kg to 300 μg/kg
		Carbofuran ChlorfenvinPhos		10 μg/kg to 300 μg/kg 10 μg/kg to 300 μg/kg
		Diazinon		10 μg/kg to 300 μg/kg
		Dichlorvos		10 µg/kg to 300 µg/kg

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6. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Chilli Flakes,	Dicofol	CQAL/INST/STP-55	10 µg/kg to 300 µg/kg
	Nutmeg,	Ethion	AOAC (19th Edition) 2007.01:	10 μg/kg to 300 μg/kg
	Cinnamon,	Fenitrothion	2012, QuEChERS	10 μ g/kg to 300 μ g/kg
	Elaichi/	Fenthion	Issue. 04, Dated. 20-08-2014	10 μ g/kg to 300 μ g/kg
	Cardamom,			
	Masala Mix/			
	Curry Paste,			
	Export Sauces,			10 1 000 1
	Pasta	Formothion		10 μ g/kg to 300 μ g/kg
	Saucemaker,	T (1		10 // / 200 //
	Spice Mix, Chilli	Imazethapyr		10 µg/kg to 300 µg/kg
	Whole, Turmeric	MonocrotoPhos		10
	Whole, Coriander	WohociotoPhos		10 μ g/kg to 300 μ g/kg
	Whole, Chilli	Demeton – S – Methyl Sulfoxide		10 µg/kg to 300 µg/kg
	Powder,	Demeton – S – Metnyi Sunoxide		10 µg/kg to 500 µg/kg
	Turmeric	Oxyfluorfen		10 µg/kg to 300 µg/kg
	Powder,	Oxyndonen		10 µg/kg to 500 µg/kg
	Coriander	Paraquat Dichloride		10 µg/kg to 300 µg/kg
	Powder, Blended	i uluquut Diemoride		10 µg/kg to 500 µg/kg
	Spices,	Phenthoate	CQAL/INST/STP-55	10 µg/kg to 300 µg/kg
	Fenugreek		AOAC (19 th Edition) 2007.01:	10 µ8 18 to 200 µ8 18
	Whole,	Phosalone	2012, QuEChERS	10 µg/kg to 300 µg/kg
	Dehydrated		Issue. 04, Dated. 20-08-2014	10 0 10 10 0
	Curry Leaves,	Phosphamidon	,	10 µg/kg to 300 µg/kg
	Garlic Powder,	•		
	Compounded	PirimiPhos – Methyl		10 µg/kg to 300 µg/kg
	Asafetida, Black			
	Pepper Whole, QuinalPhos		10 µg/kg to 300 µg/kg	
	Ginger Powder,			
	Whole Black	Thiometon	CQAL/INST/STP-56	10 μ g/kg to 300 μ g/kg
	Mustard, Cumin		AOAC (19th Edition) 2007.01:	
	Whole,	TriazoPhos	2012, QuEChERS	10 μ g/kg to 300 μ g/kg
	Seasoning,		Issue. 04, Dated. 20-08-2014	

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Onion Powder, PaprikaTrichlorPhonOleoresin, Clove Leaf Oil, CassiaAldrinOil, Amchur PowderChlordaneChlorpyrifosCopper OxychlorideCypermethrinCypermethrin	TrichlorPhon	CQAL/INST/STP-56 AOAC (19 th Edition) 2007.01:	10 µg/kg to 300 µg/kg
		Aldrin	2012, QuEChERS	10 µg/kg to 300 µg/kg
		Chlordane	Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
		Chlorpyrifos		10 µg/kg to 300 µg/kg
		Copper Oxychloride		10 µg/kg to 300 µg/kg
			10 µg/kg to 300 µg/kg	
		DDT		10 µg/kg to 300 µg/kg
		Decamethrin		10 µg/kg to 300 µg/kg
		Dithiocarbamates		10 µg/kg to 300 µg/kg
		$\alpha - Endosulphan$		10 µg/kg to 300 µg/kg
		β – Endosulphan		
		Endosulphan Sulphate		
	Heptachlor α – Hexa Chloro Cyclohexane β – Hexa Chloro Cyclohexane γ – Hexa Chloro Cyclohexane δ – Hexa Chloro Cyclohexane	Heptachlor		10 µg/kg to 300 µg/kg
		β – Hexa Chloro Cyclohexane γ – Hexa Chloro Cyclohexane		10 µg/kg to 300 µg/kg

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5. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Chilli Flakes, Nutmeg,	Iprodione	CQAL/INST/STP-56 AOAC (19 th Edition) 2007.01:	10 µg/kg to 300 µg/kg
	Cinnamon, Elaichi/	Malathion	2012, QuEChERS Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Cardamom, Masala Mix/	Mancozeb as Dithiocarbamate	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Curry Paste, Export Sauces,	Metiram As Dithiocarbamate	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	10 µg/kg to 300 µg/kg
	Pasta Saucemaker,	Parathion	CQAL/INST/STP-81 Issue. 04, Dated. 25-11-2015	10 μ g/kg to 300 μ g/kg
	Spice Mix, Chilli Whole, Turmeric	Parathion – Methyl	15545. 0 1, <i>Duton. 20</i> 11 2010	10 μ g/kg to 300 μ g/kg
	Whole, Coriander	Phorate		10 μ g/kg to 300 μ g/kg
	Whole, Chilli Powder,	Pyrethrins		10 μ g/kg to 300 μ g/kg
	Turmeric Powder, Coriander	Hydrogen Cyanide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	1 μ g/kg to 300 μ g/kg
	Powder, Blended Spices, Fenugreek	Hydrogen Phosphide	CQAL/INST/STP-80 Issue. 04, Dated. 20-08-2014	5 μ g/kg to 300 μ g/kg
	Whole, Dehydrated Curry Leaves, Garlic Powder, Compounded Asafetida, Black Pepper Whole, Ginger Powder, Whole Black Mustard, Cumin Whole, Seasoning,	Inorganic Bromide	CQAL/INST/STP-79 Issue. 04, Dated. 20-08-2014	10 μg/kg to 300 μg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		of Testing / of Detection
	Onion Powder, Paprika Oleoresin, Clove Leaf Oil, Cassia Oil, Amchur Powder				
14.	Refined Sugar, Plantation White	Lead	CQAL/INST/STP-38 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10: 2012	LOD: 0.3	g to 50000 mg/kg mg/kg
	Sugar	Copper			g to 50000 mg/kg mg/kg
		Tin		1.2 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg
		Zinc		1.0 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg
		Cadmium		0.8 mg/kg LOD: 0.3	g to 50000 mg/kg mg/kg
		Arsenic	CQAL/INST/STP-39 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10 2012	LOD: 0.3	g to 10 mg/kg mg/kg
		Mercury	CQAL/INST/STP-40 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10 2012	LOD: 0.6	g to 10 mg/kg mg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		of Testing / of Detection	
15.	Cashew, Almond, Raisins	Mycotoxins	CQAL/INST/STP-42 Issue. 04, Dated. 20-08-2014		to 1000 μg/kg μg/kg	
		Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10 2012		g to 50000 mg/kg mg/kg	
		Copper	Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
		Tin		1.2 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
		Zinc		1.0 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
		Cadmium		0.8 mg/kg LOD: 0.3	g to 50000 mg/kg mg/kg	
		Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014	: LOD: 0.3	g to 10 mg/kg mg/kg	
		Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014	: LOD: 0.6	g to 10 mg/kg mg/kg	

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	-	of Testing / of Detection

			performed	
16.	Orange Juice Powder, Strawberry Juice Powder, Jamun	owder,LeadCQAL/INST/STP-trawberry JuiceIssue. 04, Dated. 2	CQAL/INST/STP-38 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10:	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Juice, Orange Juice, Pineapple Juice, Pink	Copper	2012	0.8 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Guava Juice, Apple Juice, Mixed Fruit	Tin		0.5 mg/kg to 50000 mg/kg LOD: 0.1 mg/kg
	Juice, Mango Juice, Amla Juice,	Zinc	CQAL/INST/STP-39 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10:	1.0 mg/kg to 50000 mg/kg LOD: 0.6 mg/kg
	Pomogranate Juice, Cranberry Juice, Dry Fruit	Cadmium	2012	0.8 mg/kg to 50000 mg/kg LOD: 0.3 mg/kg
	Apple Juice, Orange Cells, Pomogranate	Arsenic		0.8 mg/kg to 10 mg/kg LOD: 0.3 mg/kg
	Pulp, Jamun Pulp, Amla Pulp, Litchi Pulp, Mixed Fruit Concentrate, Pink Guava Pulp, Totapuri Mango Pulp, Alphanso Mango Pulp, Pineapple Juice Concentrate, Apple Juice Concentrate, Deionised Apple	Mercury	CQAL/INST/STP-40 Issue. 04, Dated. 20-08-2014 AOAC (19 th Edition) 999.10: 2012	0.8 mg/kg to 10 mg/kg LOD: 0.6 mg/kg

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		of Testing / of Detection	
	Juice Concentrate, Orange Juice Concentrate					
17.	Hydrogenated Vegetable Oil, Bakery Shortening,	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10 2012		g to 50000 mg/kg mg/kg	
	Palm Oil, Palmolein Oil,	Copper	Issue. 04, Dated. 20-08-2014	4 0.8 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
	Hydrogenated Coconut Oil (HCNO), Special	Tin		1.2 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
	Hydrogenated Vegetable Oil, Hydrogenated	Zinc		1.0 mg/kg LOD: 0.6	g to 50000 mg/kg mg/kg	
	Palm Kernel Oil (HPKO), Carnauba Wax,	Cadmium		0.8 mg/kg LOD: 0.3	g to 50000 mg/kg mg/kg	
	Poly Glycerol Poly Ricinoleate (PGPR), Miglyol 812N	Arsenic	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014	: LOD: 0.3	g to 10 mg/kg mg/kg	
		Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014	: LOD: 0.6	g to 10 mg/kg mg/kg	
		Hypercine	CQAL/INST/STP-45 AOAC (19 th Edition) 999.10 2012 Issue. 04, Dated. 20-08-2014):	to 300 μg/kg	

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18.	Dehydrated Chicken, Non- Veg Ready Meals, Chicken Fat	Trace metal elements Lead	CQAL/INST/STP-38 AOAC (19 th Edition) 999.10 2012		g to 50000 mg/kg mg/kg	
		Copper	Issue. 04, Dated. 20-08-2014	0.8 mg/kg LOD: 0.6	g to 50000 mg/kg 6 mg/kg	
		Tin		0.5 mg/kg LOD: 0.1	g to 50000 mg/kg mg/kg	
		Zinc		0.5 mg/kg LOD: 0.1	g to 50000 mg/kg mg/kg	
		Cadmium	CQAL/INST/STP-39 AOAC (19 th Edition) 999.10:	LOD: 0.1	g to 50000 mg/kg mg/kg	
		Arsenic	2012 Issue. 04, Dated. 20-08- 2014		g to 10 mg/kg mg/kg	
		Mercury	CQAL/INST/STP-40 AOAC (19 th Edition) 999.10: 2012 Issue. 04, Dated. 20-08- 2014	LOD: 0.1	g to 10 mg/kg mg/kg	
III.	WATER					
1.	Reverse Osmosis Water, Raw Water	Colour	IS 3025 (Part 4): 1983	1 Hazen t 100 Haze		
		Odour	IS 3025 (Part 4): 1983	Qualitativ	ve	
		pH Value	IS 3025 (Part 11): 1983	1 to 14		
		Taste	IS 3025 (Part 7): 1984 IS 3025 (Part 8): 1984	Qualitativ	ve	

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	Reverse Osmosis Water, Raw	Turbidity	IS 3025 (Part 10): 1984	1 NTU to	80 NTU	
	Water	Total Dissolved Solids	IS 3025 (Part 16): 1984		1 mg/l to 500 mg/l; 500 mg/l to 2000 mg/l	
		Ammonia (As Total Ammonia Nitrogen)	IS 3025 (Part 34): 1988	0.5 mg/l t	to 10 mg/l	
		Anionic Detergents (As MBAS)	IS 13428: 2005 APHA (22 nd Edition) 5540C,		to 10 mg/l	
		Chloramines (As Cl ₂)	IS 3025 (Part 26): 1986 APHA (22 nd Edition) 4500,	1 mg/l to	10 mg/l	

IS 3025 (Part 32): 1988

IS 3025 (Part 60): 2008 APHA (22nd Edition) 4500FD,

IS 3025 (Part 26): 1986

IS 3025 (Part 40): 1991

IS 3025 (Part 46): 1991

IS 3025 (Part 34): 1998,

IS 3025 (Part 43): 1992,

APHA (22nd Edition) 5530C

NO³⁻ B,

APHA (22nd Edition) 4500

APHA (22nd Edition) 4500,

Chloride (As Cl)

Fluoride (As F)

Calcium (As Ca)

Magnesium (As Mg)

Phenolic Compounds (As

Nitrates (As NO₃)

C₆H₅OH)

Free Residual Chlorine

1 mg/l to 1000 mg/l

1 mg/l to 10 mg/l $\,$

0.1 mg/l to 2 mg/l

1 mg/l to 200 mg/l

1 mg/l to 200 mg/l

1 mg/l to 100 mg/l

0.01 mg/l to 100 mg/l

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	Material of Test		against which tests are performed		of Detection	
	Reverse Osmosis Water, Raw	Cyanide	against which tests are	Limits	•	
	Reverse Osmosis		against which tests are performed IS 3025 (Part 27): 1986,	Limits	of Detection	
	Reverse Osmosis Water, Raw	Cyanide	against which tests are performed IS 3025 (Part 27): 1986, APHA (22 nd Edition) 4500	Limits of 0.05 mg/l	of Detection	
	Reverse Osmosis Water, Raw	Cyanide Sulphates (As SO ₄)	against which tests are performed IS 3025 (Part 27): 1986, APHA (22 nd Edition) 4500 IS 3025 (Part 24): 1986	Limits of 0.05 mg/l	of Detection to 10 mg/l 400 mg/l to 100 mg/l	